



# TEST REPORT

REPORT NUMBER: I22W00051-GSM-RF-Rev3

ON

**Type of Equipment:** LPWA Module

**Type of Designation:** SIM7075G

**Brand Name:** SIMCom

**Manufacturer:** SIMCom Wireless Solutions Limited

**FCC ID:** 2AJYU-8VC0004

## ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;  
GENERAL RULES AND REGULATIONS, e-CFR  
PART 22, PUBLIC MOBILE SERVICES, e-CFR  
PART 24, PERSONAL COMMUNICATIONS SERVICES, e-CFR  
ANSI C63.26-2015 American National Standard for Complicance Testing of Transmitters  
Used in Licensed Radio Services

**Chongqing Academy of Information and Communications Technology**

*Month date, year*

Oct, 09, 2022

*Signature*

**Xiang Luoyong**

**Director**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: I22W00051-GSM-RF-Rev3

Revision Version

Report Number	Revision	Date	Memo
I22W00051-GSM-RF	00	2022-08-09	Initial creation of test report
I22W00051-GSM-RF-Rev1	01	2022-09-14	first change of test report
I22W00051-GSM-RF-Rev2	02	2022-09-27	--
I22W00051-GSM-RF-Rev3	03	2022-10-09	--

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## 1. Test Laboratory

### 1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

### 1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

### 1.3. Project data

Testing Start Date:	2022-06-27
Testing End Date:	2022-08-25

### 1.4. Signature



2022-10-09

**Dong Junxin**  
(Prepared this test report)

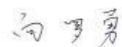
**Date**



2022-10-09

**Li Xu**  
(Reviewed this test report)

**Date**



2022-10-09

**Xiang Luoyong**  
Director of the laboratory  
(Approved this test report)

**Date**

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## 2. Client Information

### 2.1. Applicant Information

Company name:	SIMCom Wireless Solutions Limited
Address /Post:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18616929436
Fax:	--
Email:	zhiqiang.bai703@simcom.com
Contact Person:	ZhiQiang Bai

### 2.2. Manufacturer Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18616929436
Fax:	--
Email:	zhiqiang.bai703@simcom.com
Contact Person:	ZhiQiang Bai

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### 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

EUT Description	LPWA Module
Model name	SIM7075G
Brand name	SIMCom
GSM Frequency Band	GSM 850/1900
Type of modulation	GMSK/8PSK
Extreme Temperature	-40/+85°C
Nominal Voltage	3.8
Extreme High Voltage	4.3
Extreme Low Voltage	3.3

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

#### 3.2. Internal Identification of EUT used during the test

EUT ID	SN or IMEI	HW Version	SW Version	Date of receipt
S1	IMEI:865456056939489	V1.01	R2117.01	2022-06-24
S6	IMEI:865456056938960	V1.01	R2117.01	2022-06-24

\*EUT ID: is used to identify the test sample in the lab internally.

### 3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
GSM	GSM 1900	1850.2-1909.8	1930.2-1989.8	--
	GSM 850	824.2-848.8	869.2-893.8	--

### 3.4. Internal Identification of AE used during the test

AE ID*	Description	Manufacturer	Model	Length
AE1	SIMCOM-EVB	SIMCom Wireless Solutions Limited	SIMCOM-EVB	11.6cm
AE2	Power Adapter	Something High Innovation (B.V.I.) Co., Ltd	P-050B-B2152	150cm
AE3	USB Cable		KLC-1707	60cm
AE4	GSM/WCDMA/LTE Antenna	SPEED Communication Technology	MF25D	11.6cm
AE5	GNSS Antenna	INPAQ TECHNOLOGY CO., LTD.	GPSGLONASS 03D-S3-00-A	300cm

\*AE ID: is used to identify the test sample in the lab internally.

#### Antenna Gain:

Frequency Band	AntennaGain (dBi)	AntennaGain (dBd)
GSM 1900	3.00	N/A
GSM 850	6.00	3.85

Note:Antenna Gain is supplied by customer.

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## 4. Reference Documents

### 4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS, e-CFR	--
FCC CFR Part 22	PUBLIC MOBILE SERVICES	--
FCC CFR Part 24	PERSONAL COMMUNICATIONS SERVICES, e-CFR	--
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015

## 5. Test Equipments Utilized

### 5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manuf acture	Cal.Due Date
1	spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2023-06-29
2	DC Power Supply	3303D	801128	--	--	Topward	2023-06-29
3	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	2023-06-29

### 5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufact ure	Cal.Due Date
1	Test Receiver	ESU26	100367	01	4.43 SP3	R&S	2023-06-29
2	Ultra-wideband Log Periodic Antenna	VULB 9163	01392	--	--	Schwarzbeck	2024-05-04
3	Double Ridged Guide Antenna	HF907	100357	--	--	R&S	2023-02-10
4	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2023-06-29
5	Double Ridged Guide Antenna	HF907	100356	--	--	R&S	2023-07-07
6	Generator	SMU 200A	104517	--	--	R&S	2023-06-29
7	Ultra-wideband Log Periodic Antenna	VULB 9163	00995	--	--	R&S	2023-04-03
8	Amplifier1	150A	1429	--	--	Beehive	2023/6/18
9	Amplifier2	SCU 18	10141	--	--	R&S	--

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### 5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2023-06-29
2	Fully-Anechoic Chamber	FACT3-2	--	ETS	2025-04-29

### 5.4. Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
--	--	--	--	--	--

### 5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 8.51.00	--	R&S
2	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.

## 6. Test Results

### 6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
2.1046,22.913(a),24.232(c)	Conducted RF Power Output	Pass
2.1046,22.913(a),24.232(c)	ERP and EIRP	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 1
2.1051,24.238,2.1053,22.917	Conducted spurious emissions	Pass
2.1051,24.238,2.1053,22.917	Radiated Spurious Emission	Pass
2.1051,24.238, 2.1053, 22.917	Band Edge	Pass
2.1055, 22.355,24.235	Frequency Stability	Pass
24.232	Peak to Average Ratio	Pass

Note 1: No applicable performance criteria.  
Note 2: Explanation of worst-case configuration The worst-case scenario for all measurements is based on the conducted output power. Output power was measured on GMSK,8PSK modulations. It was found that GMSK was the worst case. All testing was performed using GMSK modulations to represent the worst case unless otherwise stated.

## 6.2. Conducted RF Power Output

<b>Specifications:</b>	FCC Part 2.1046, 22.913(a), 24.232(c)
<b>DUT Serial Number:</b>	865456056939489
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

### Limit Level Construction:

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

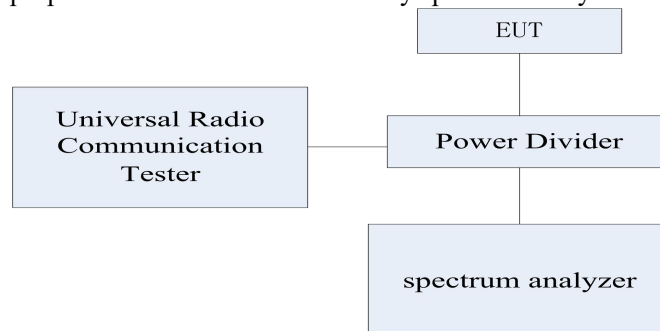
According to Part 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.6 dB (k=2)

### Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



### Test Method:

- 1) The EUT was coupled to the spectrum analyzer and the Wireless Telecommunications Test Set through a power divider. The loss of the RF cables of the test system is calibrated to correct the readings.
- 2) For RMS power test, the spectrum analyzer was set to RMS Detector function and Maximum hold mode.
- 3) For Peak power test, the spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 4) The resolution Bandwidth of the spectrum analyzer was comparable to the emission Bandwidth.

**Note:** --

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### 6.2.1 Conducted RF Power Output Results

#### GSM850

#### GPRS(GMSK)

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Peak power (dBm)
824.2	3	1TS	32.36	32.38
824.2	3	2TS	31.21	31.26
824.2	3	3TS	28.83	28.93
824.2	3	4TS	27.71	27.84
836.6	3	1TS	32.14	32.17
836.6	3	2TS	31.08	31.13
836.6	3	3TS	28.66	28.77
836.6	3	4TS	27.54	27.69
848.8	3	1TS	32.33	32.35
848.8	3	2TS	31.23	31.28
848.8	3	3TS	28.80	28.91
848.8	3	4TS	27.67	27.82

#### GSM850

#### EGPRS(8PSK)

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Peak power (dBm)
824.2	6	1TS	25.95	25.98
824.2	6	2TS	23.54	23.59
824.2	6	3TS	21.92	21.94
824.2	6	4TS	20.75	20.86
836.6	6	1TS	25.71	25.74
836.6	6	2TS	23.47	23.49
836.6	6	3TS	21.72	21.74
836.6	6	4TS	20.65	20.79
848.8	6	1TS	25.89	25.92
848.8	6	2TS	23.64	23.69
848.8	6	3TS	21.86	21.93
848.8	6	4TS	20.70	20.73

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**PCS1900****GPRS(GMSK)**

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Peak power (dBm)
1850.2	3	1TS	29.29	29.30
1850.2	3	2TS	29.20	29.21
1850.2	3	3TS	25.68	25.71
1850.2	3	4TS	24.46	24.51
1880	3	1TS	29.16	29.17
1880	3	2TS	29.12	29.13
1880	3	3TS	25.79	25.82
1880	3	4TS	24.56	24.58
1909.8	3	1TS	29.38	29.38
1909.8	3	2TS	28.90	28.91
1909.8	3	3TS	25.23	25.27
1909.8	3	4TS	25.01	25.06

**PCS1900****EGPRS(8PSK)**

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Peak power (dBm)
1850.2	5	1TS	25.00	25.00
1850.2	5	2TS	22.64	22.65
1850.2	5	3TS	21.03	21.05
1850.2	5	4TS	20.07	20.08
1880	5	1TS	25.23	25.28
1880	5	2TS	22.80	22.83
1880	5	3TS	21.33	21.38
1880	5	4TS	20.55	20.33
1909.8	5	1TS	25.07	25.36
1909.8	5	2TS	22.73	22.76
1909.8	5	3TS	22.34	21.21
1909.8	5	4TS	20.10	20.12

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6.3. ERP and EIRP

<b>Specifications:</b>	FCC Part 22.913(a), 24.232(b)
<b>DUT Serial Number:</b>	IMEI:865456056938960
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

Method of Measurement

Conducted RF Power+Antenna Gain(dBi)=EIRP

Conducted RF Power+Antenna Gain(dBd)=ERP

Antenna Gain(dBd)= Antenna Gain(dBi)-2.15

Note:Antenna Gain is supplied by customer.

Frequency Band	AntennaGain (dBi)	AntennaGain (dBd)
GSM 1900	3.00	N/A
GSM 850	6.00	3.85

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### 6.3.1 GSM 850

Limits 38.5dBm(7w)

Max ERP:36.21dBm

GPRS(GMSK)

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Radiated Power(dBm) $G_T= 3.85dBd$
824.2	3	1TS	32.36	36.21
824.2	3	2TS	31.21	35.06
824.2	3	3TS	28.83	32.68
824.2	3	4TS	27.71	31.56
836.6	3	1TS	32.14	35.99
836.6	3	2TS	31.08	34.93
836.6	3	3TS	28.66	32.51
836.6	3	4TS	27.54	31.39
848.8	3	1TS	32.33	36.18
848.8	3	2TS	31.23	35.08
848.8	3	3TS	28.80	32.65
848.8	3	4TS	27.67	31.52

### EGPRS(8PSK)

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Radiated Power(dBm) $G_T= 3.85dBd$
824.2	6	1TS	25.95	29.80
824.2	6	2TS	23.54	27.39
824.2	6	3TS	21.92	25.77
824.2	6	4TS	20.75	24.60
836.6	6	1TS	25.71	29.56
836.6	6	2TS	23.47	27.32
836.6	6	3TS	21.72	25.57
836.6	6	4TS	20.65	24.50
848.8	6	1TS	25.89	29.74
848.8	6	2TS	23.64	27.49
848.8	6	3TS	21.86	25.71
848.8	6	4TS	20.70	24.55

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**6.3.2 GSM 1900**

**Limits 33.0dBm(2w)**

**Max EIRP:32.38dBm**

**GPRS(GMSK)**

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Radiated Power(dBm) GT= 3.00dBi
1850.2	3	1TS	29.29	32.29
1850.2	3	2TS	29.20	32.20
1850.2	3	3TS	25.68	28.68
1850.2	3	4TS	24.46	27.46
1880	3	1TS	29.16	32.16
1880	3	2TS	29.12	32.12
1880	3	3TS	25.79	28.79
1880	3	4TS	24.56	27.56
1909.8	3	1TS	29.38	32.38
1909.8	3	2TS	28.90	31.90
1909.8	3	3TS	25.23	28.23
1909.8	3	4TS	25.01	28.01

**EGPRS(8PSK)**

Frequency (MHz)	Power Step	Slot	Avg power (dBm)	Radiated Power(dBm) GT= 3.00dBi
1850.2	5	1TS	25.00	28.00
1850.2	5	2TS	22.64	25.64
1850.2	5	3TS	21.03	24.03
1850.2	5	4TS	20.07	23.07
1880	5	1TS	25.23	28.23
1880	5	2TS	22.80	25.80
1880	5	3TS	21.33	24.33
1880	5	4TS	21.55	24.55
1909.8	5	1TS	25.07	28.07
1909.8	5	2TS	22.73	25.73
1909.8	5	3TS	22.34	25.34
1909.8	5	4TS	20.10	23.10

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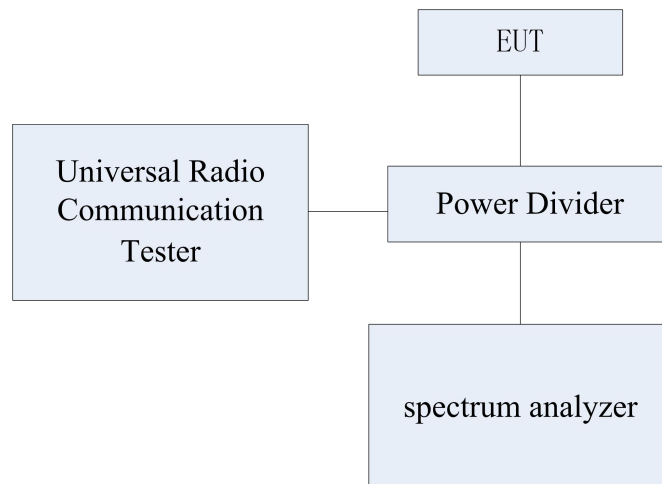
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### 6.4. Occupied Bandwidth

<b>Specifications:</b>	FCC Part 2.1049, 22.917(b), 24.238(b)
<b>DUT Serial Number:</b>	865456056939489
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	--

### Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	70.04 Hz (k=2)

### Test Method

The 99% occupied Bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power Band. The 26dB Bandwidth was also measured and recorded.

**Note:** --

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### 6.4.1 occupied bandwidth Results

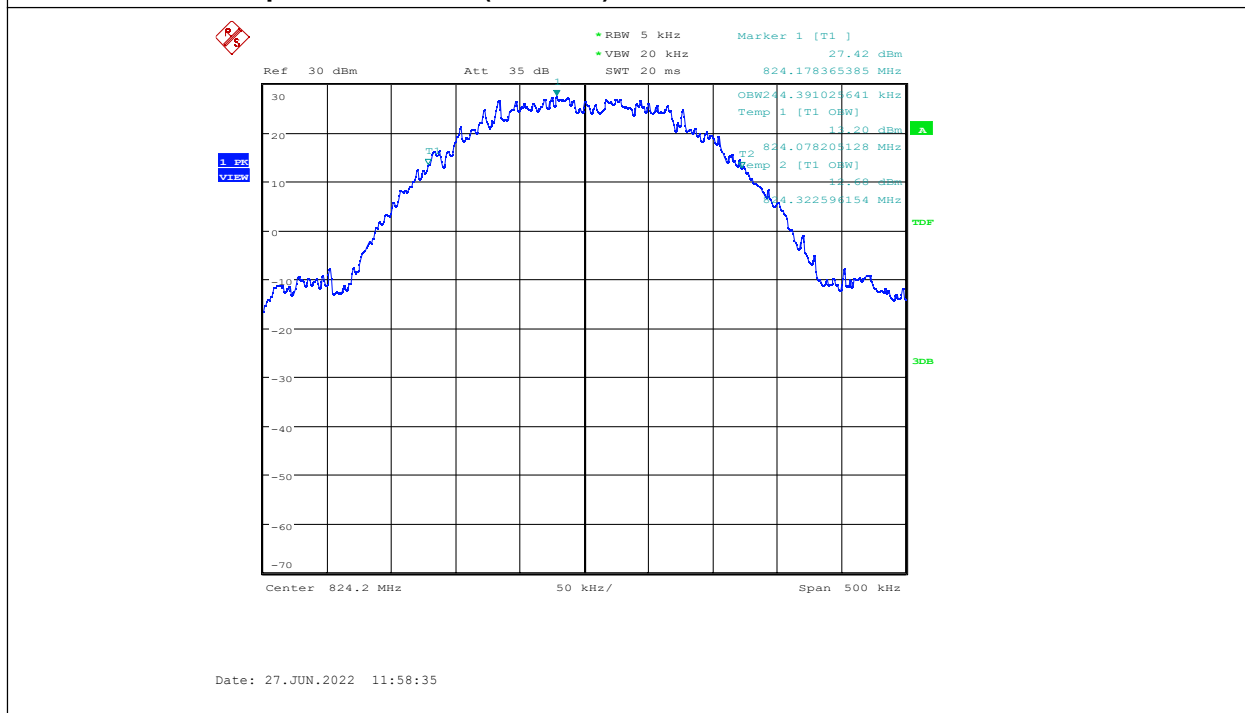
GSM850 (99 %)

GPRS

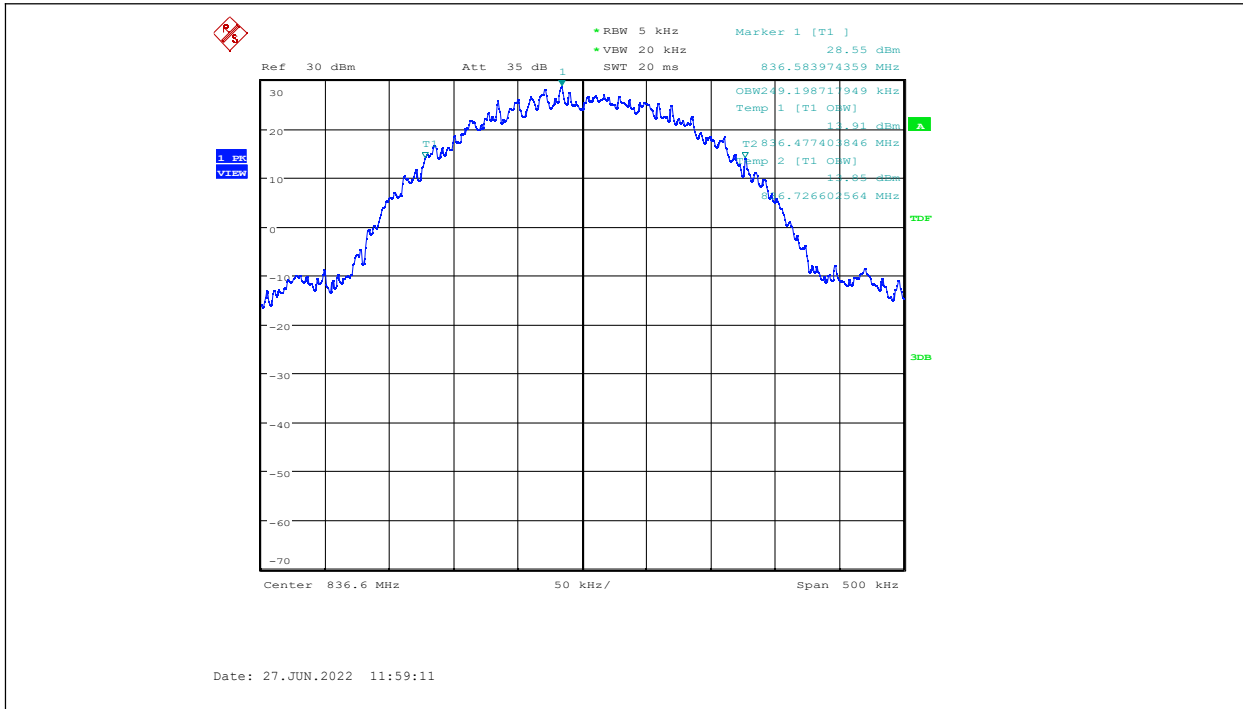
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)
824.2	244.391
836.6	249.199
848.8	246.795

GSM850

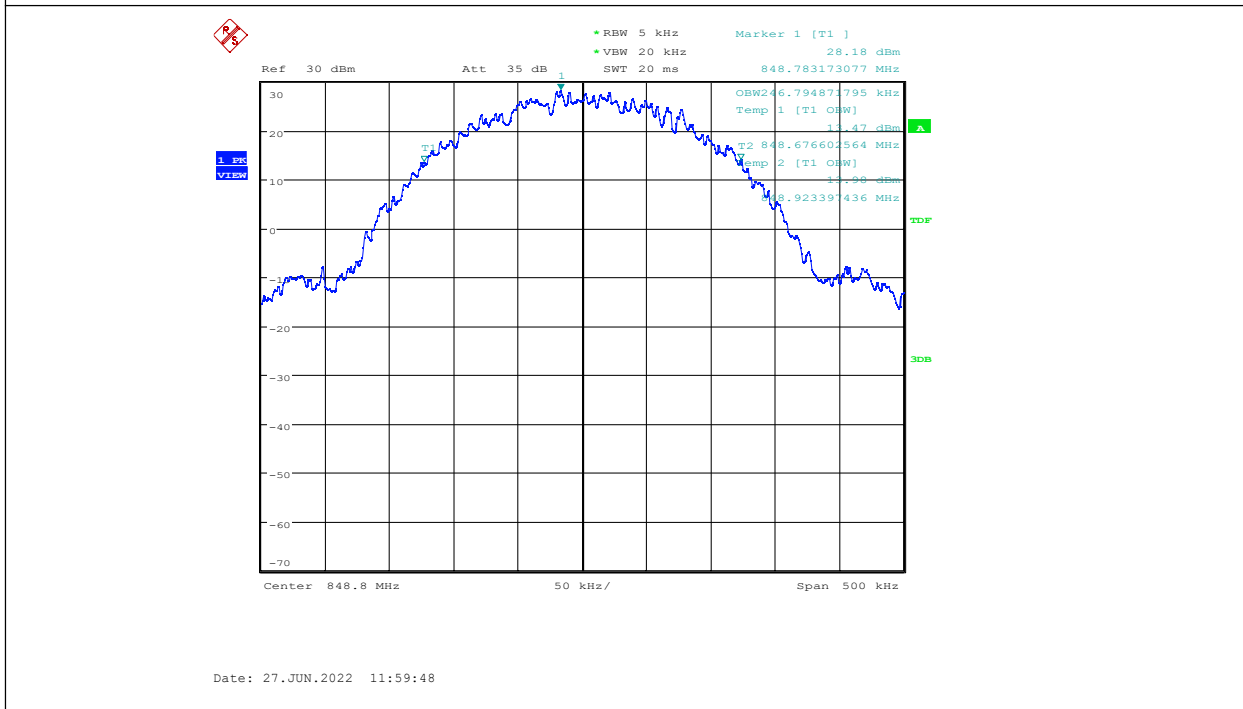
#### Channel 128-Occupied Bandwidth (99% BW)



#### Channel 190-Occupied Bandwidth (99% BW)



**Channel 251-Occupied Bandwidth (99% BW)**



**GSM850 (99 %)**

**EGPRS**

Frequency (MHz)	Occupied Bandwidth (99%) (kHz)
824.2	242.788
836.6	246.795

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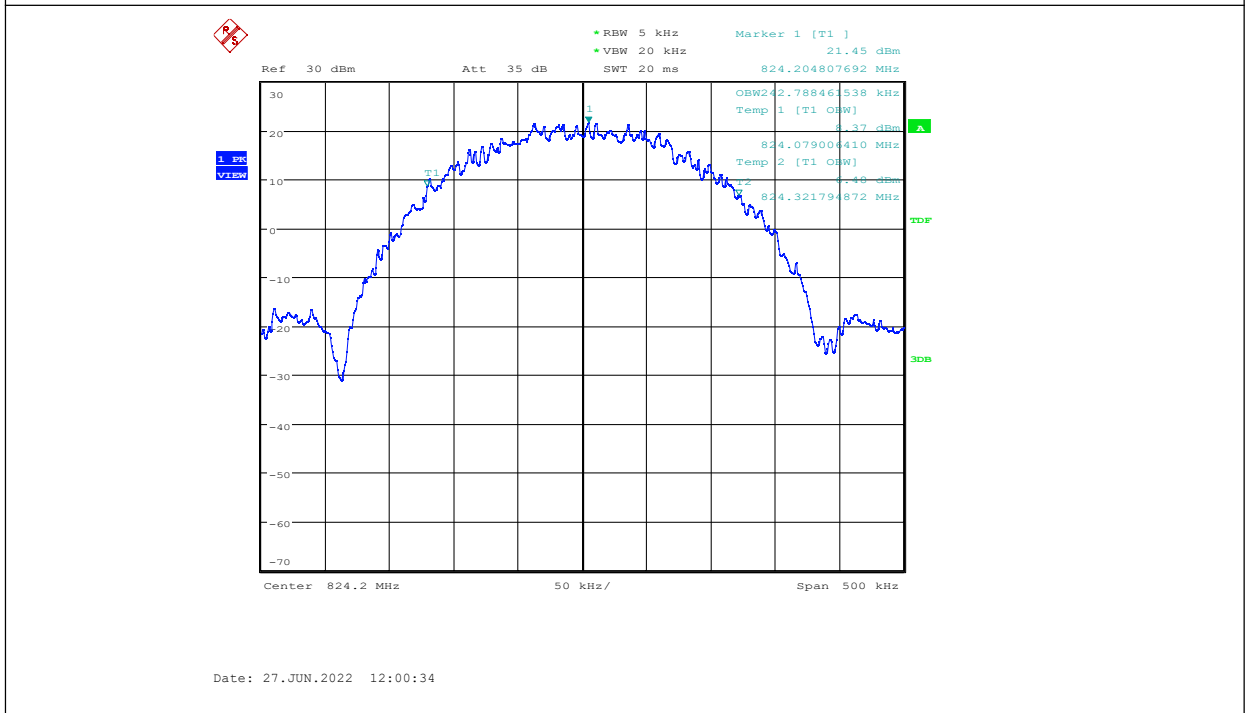
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336  
Tel: 0086-23-88069965 FAX: 0086-23-88608777



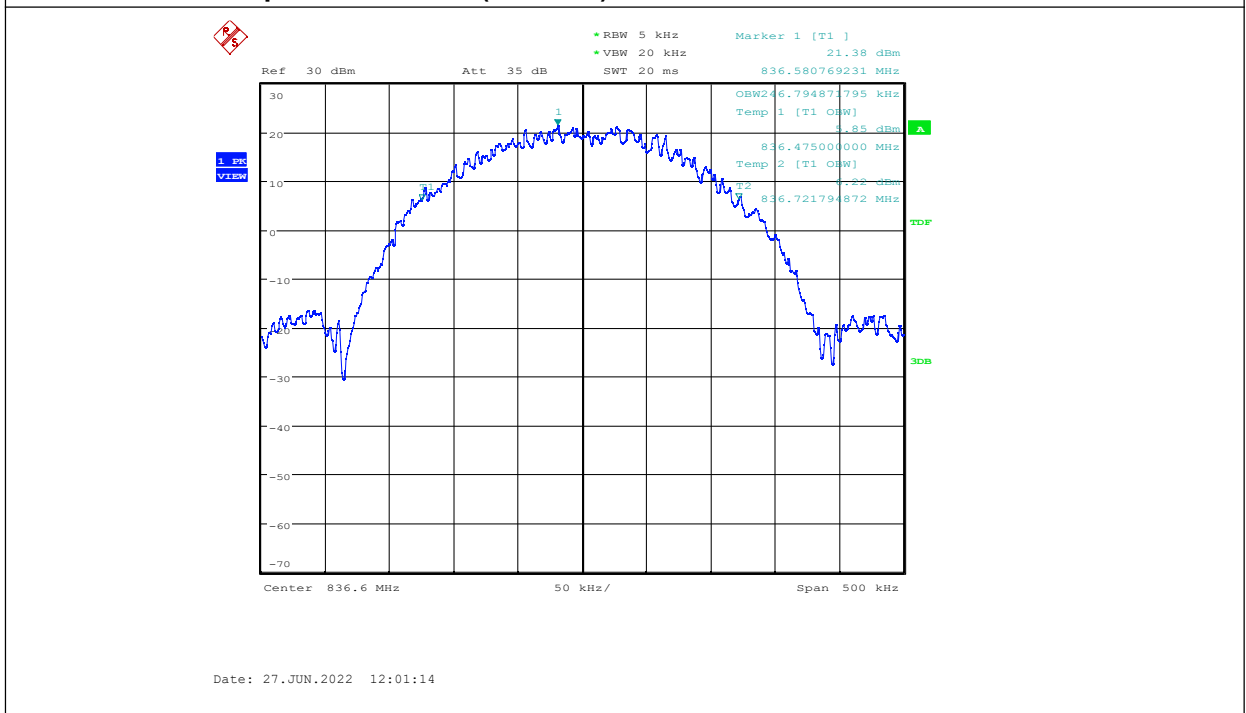
848.8	244.391
-------	---------

**GSM850**

**Channel 128-Occupied Bandwidth (99% BW)**



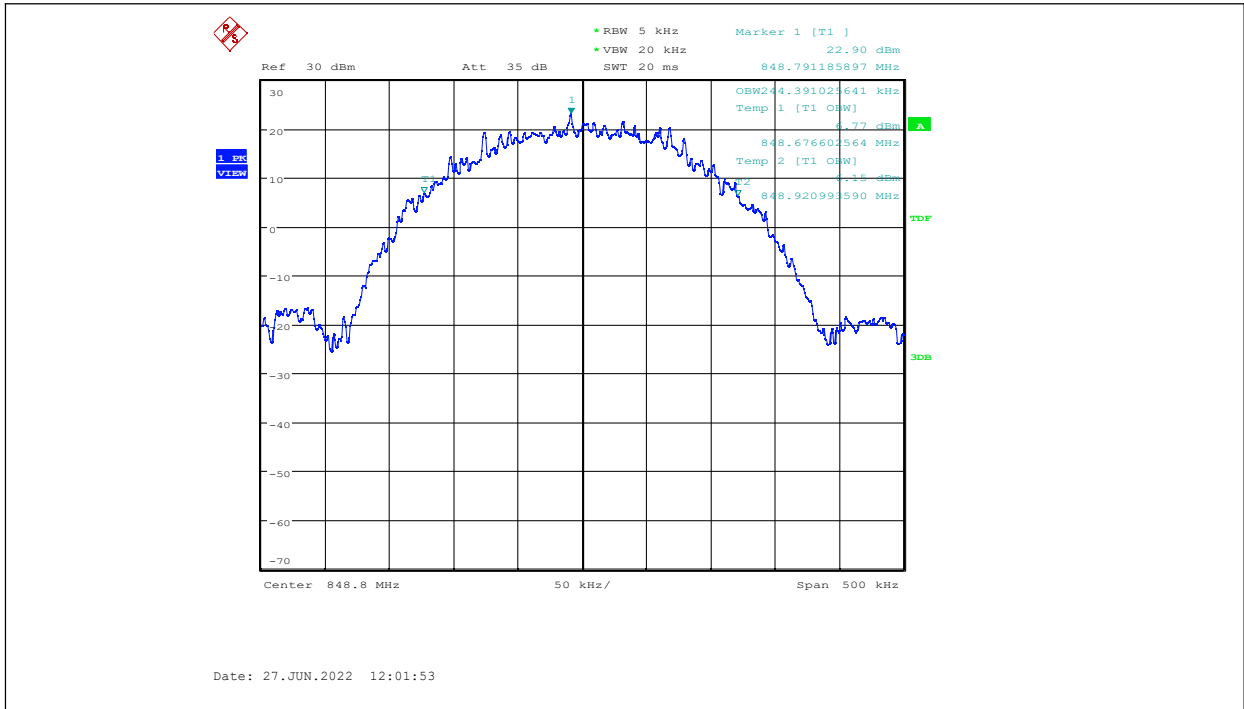
**Channel 190-Occupied Bandwidth (99% BW)**



**Channel 251-Occupied Bandwidth (99% BW)**

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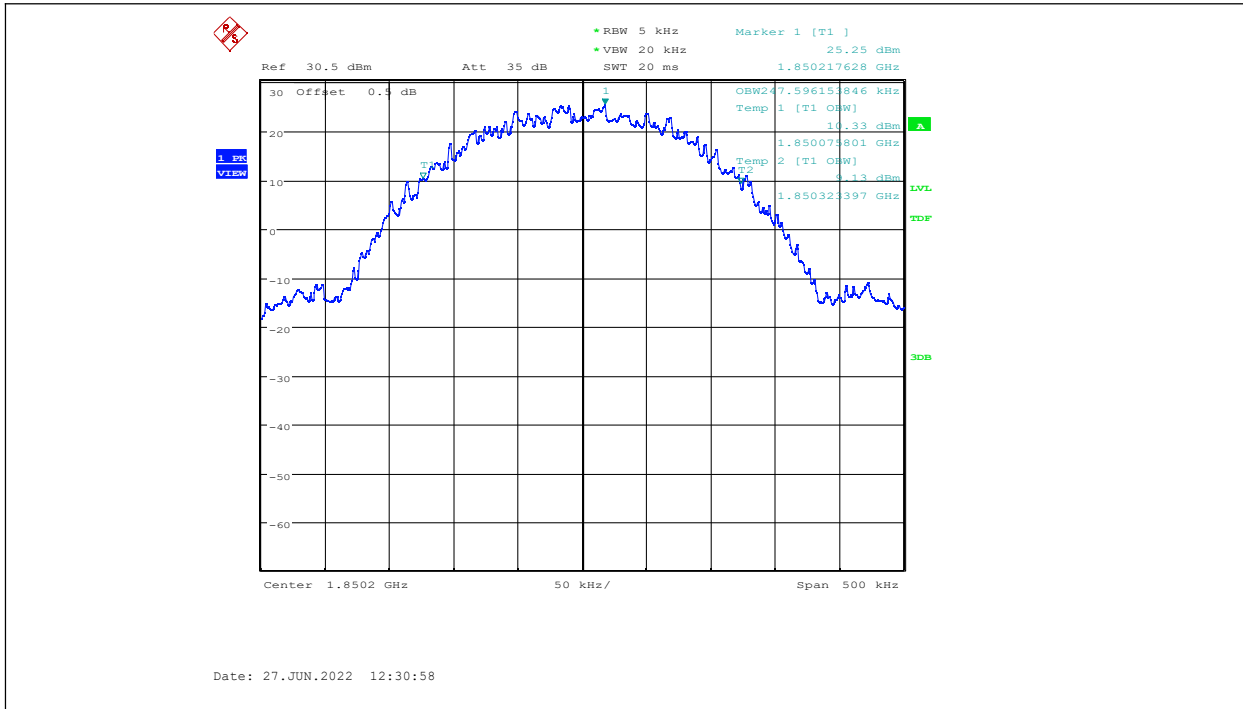
**PCS1900 (99 %)**

**GPRS**

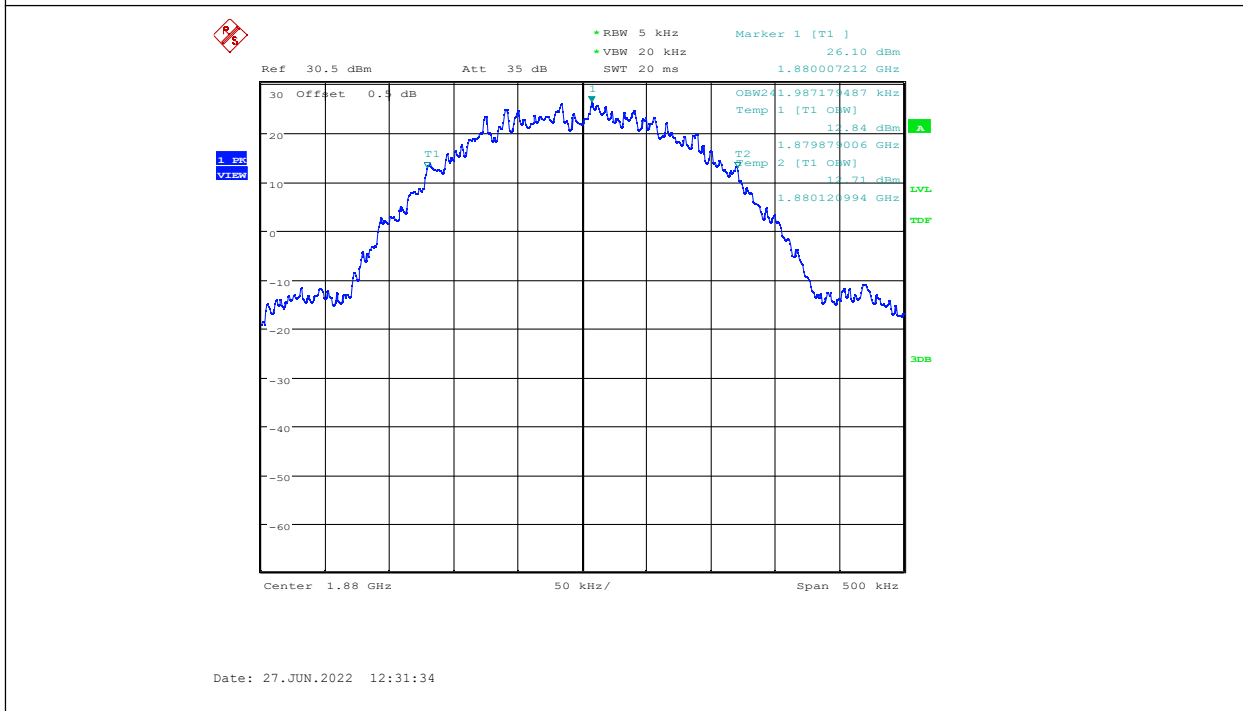
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)
1850.2	247.596
1880	241.987
1909.8	242.788

**PCS1900**

**Channel 512-Occupied Bandwidth (99% BW)**

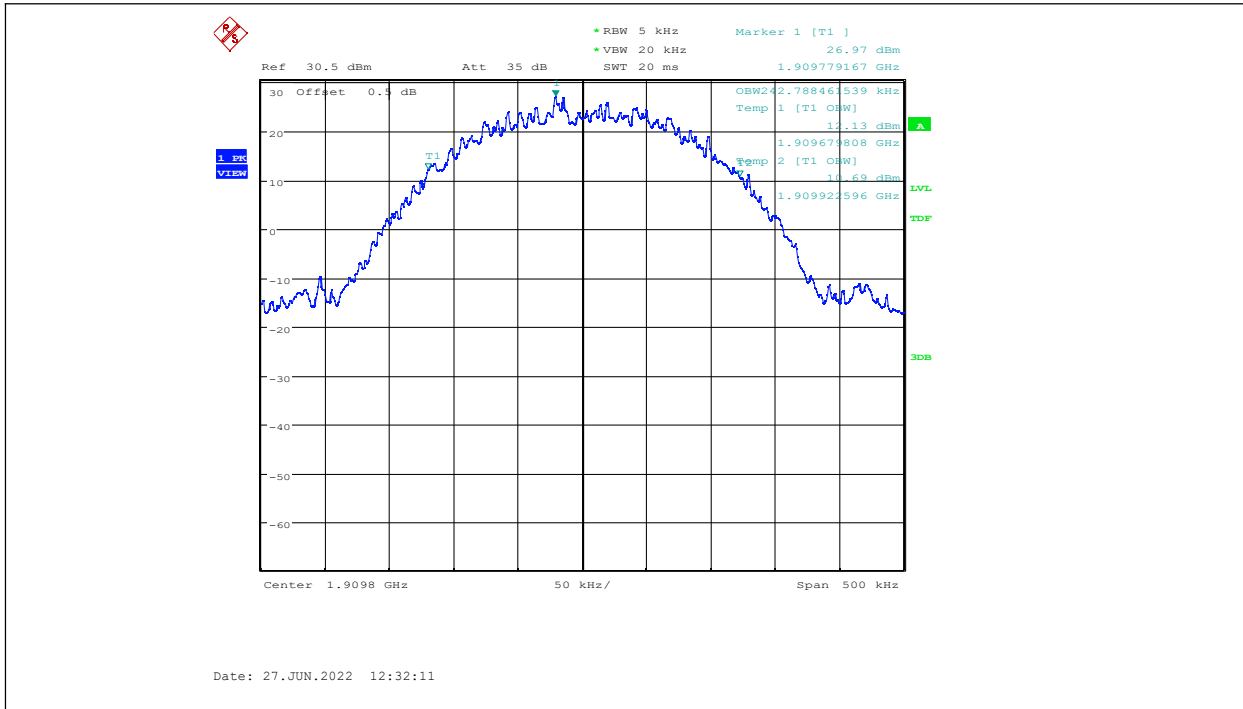


**Channel 661-Occupied Bandwidth (99% BW)**



**Channel 810-Occupied Bandwidth (99% BW)**





**PCS1900 (99 %)**

**EGPRS**

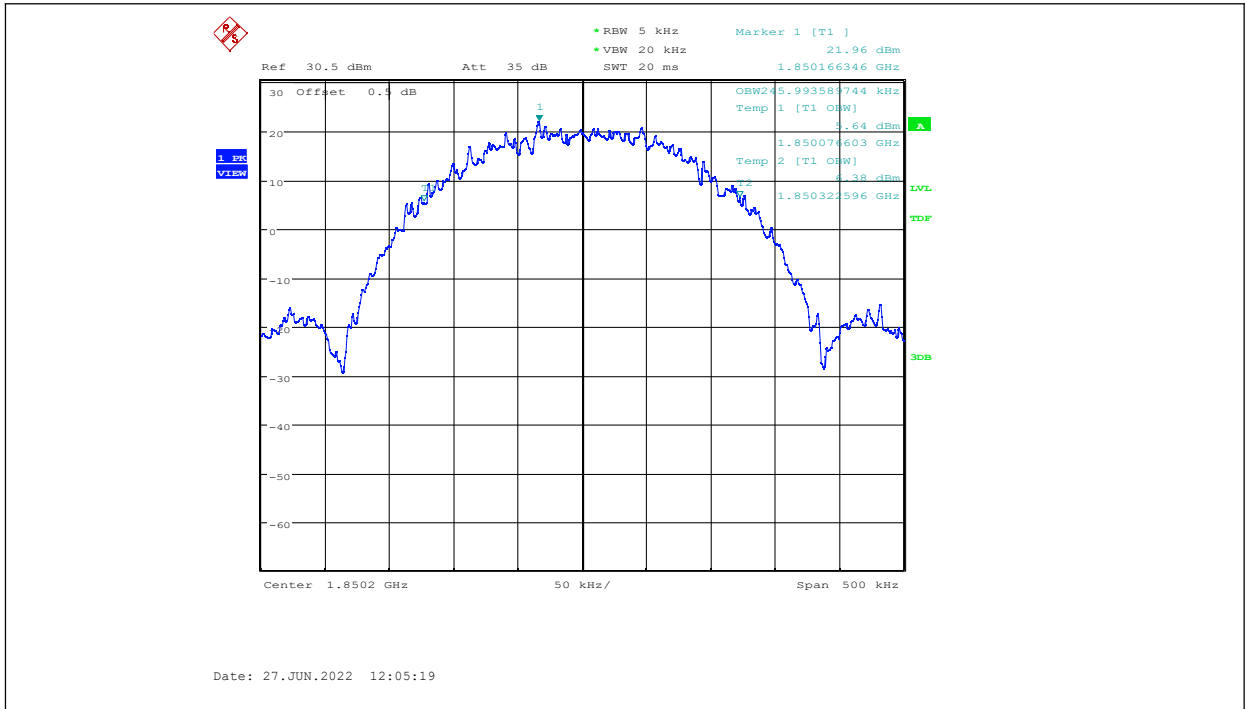
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)
1850.2	245.994
1880	243.590
1909.8	243.590

**PCS1900**

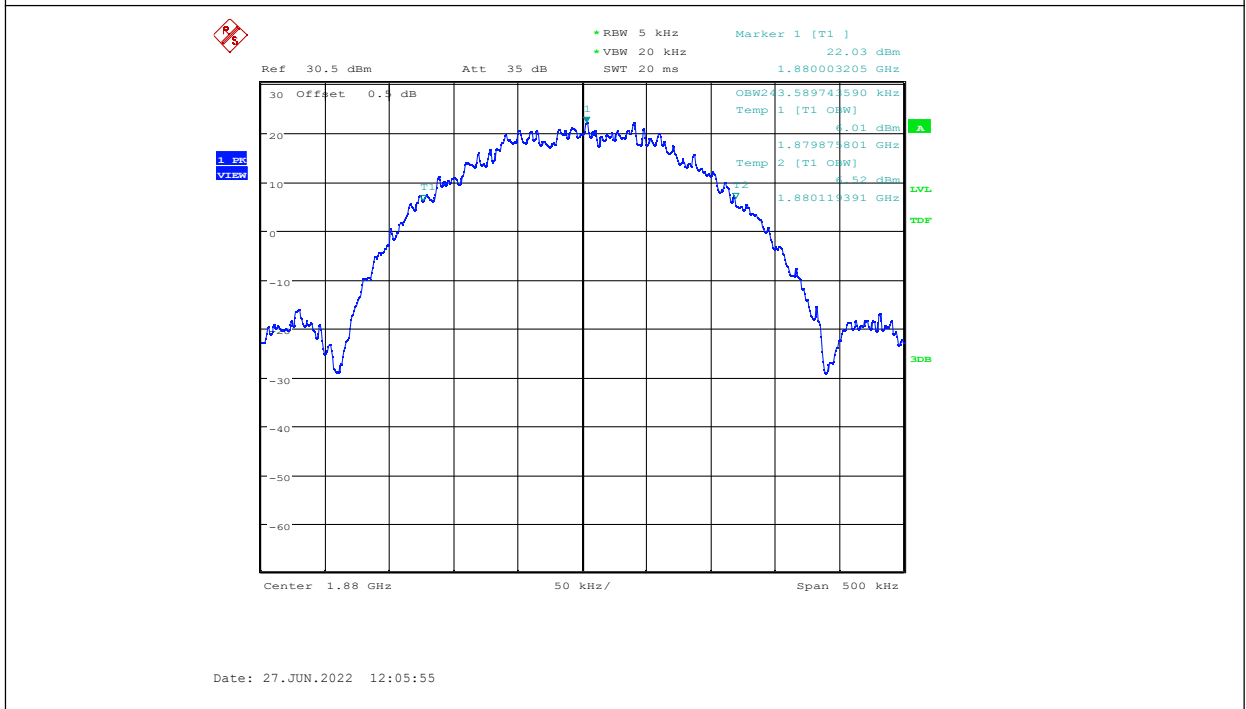
**Channel 512-Occupied Bandwidth (99% BW)**

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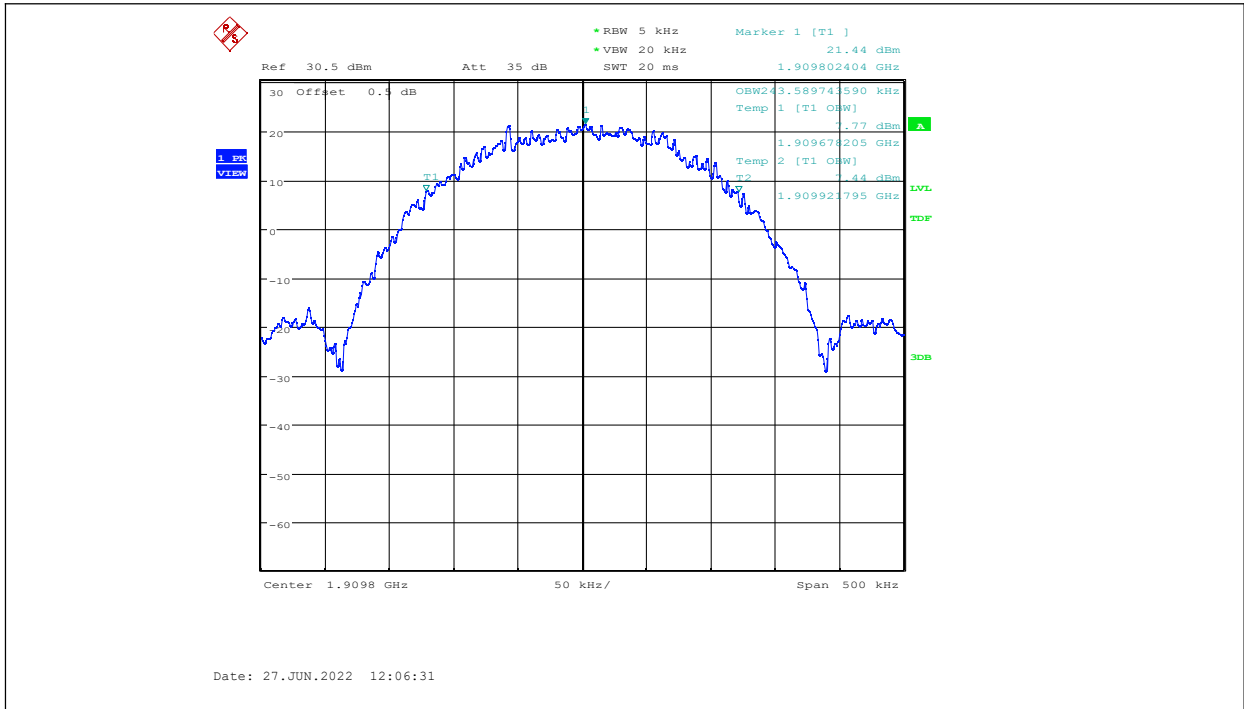
**Channel 661-Occupied Bandwidth (99% BW)**



**Channel 810-Occupied Bandwidth (99% BW)**

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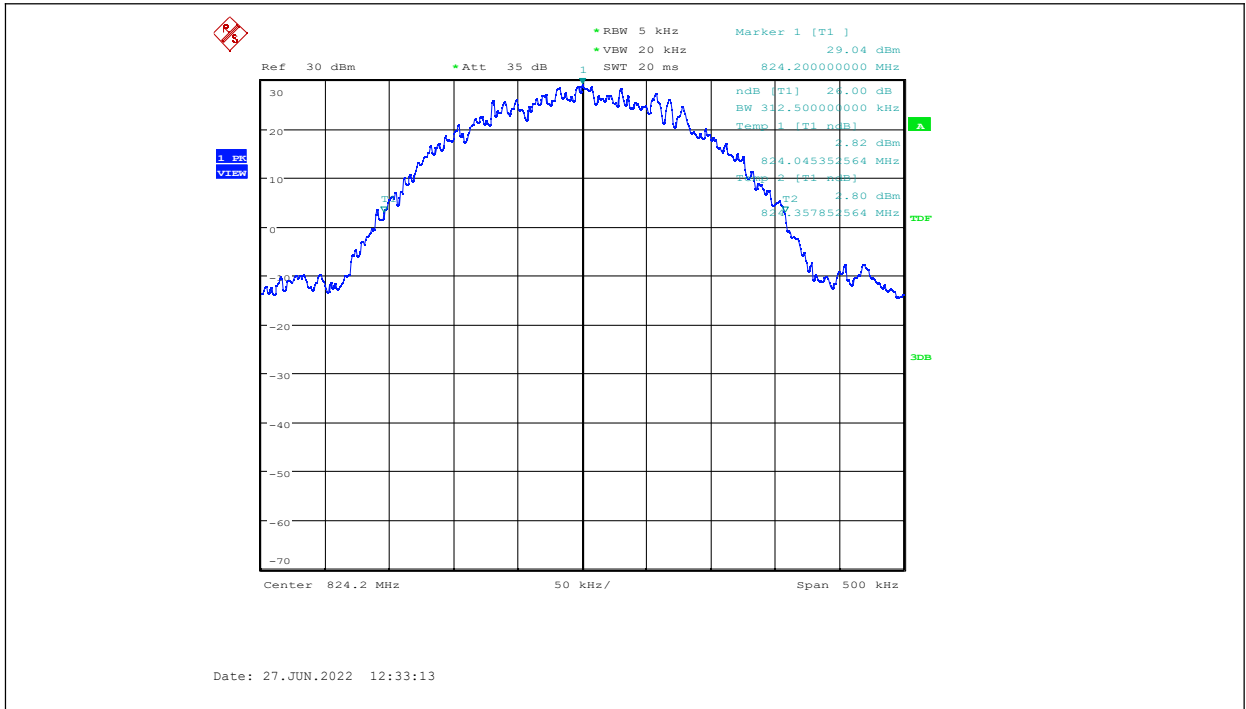
**GSM850 (-26dBc)**

**GPRS**

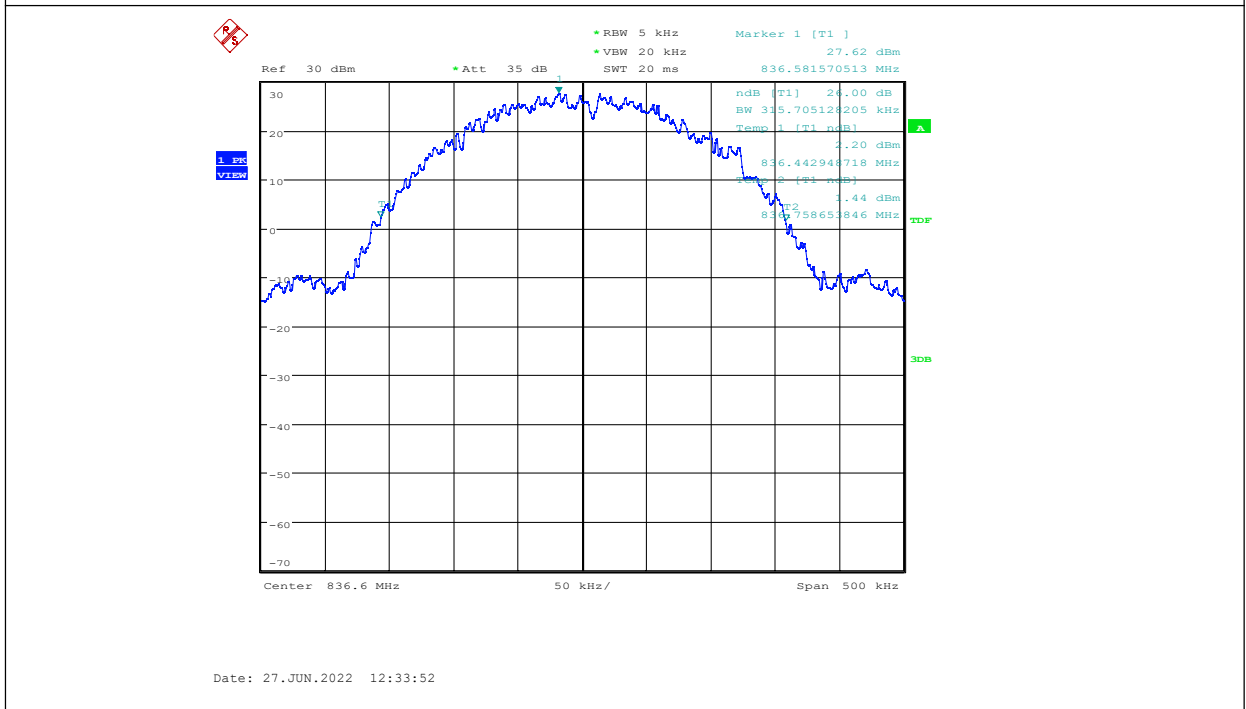
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
824.2	312.500
836.6	315.705
848.8	317.308

**GSM850**

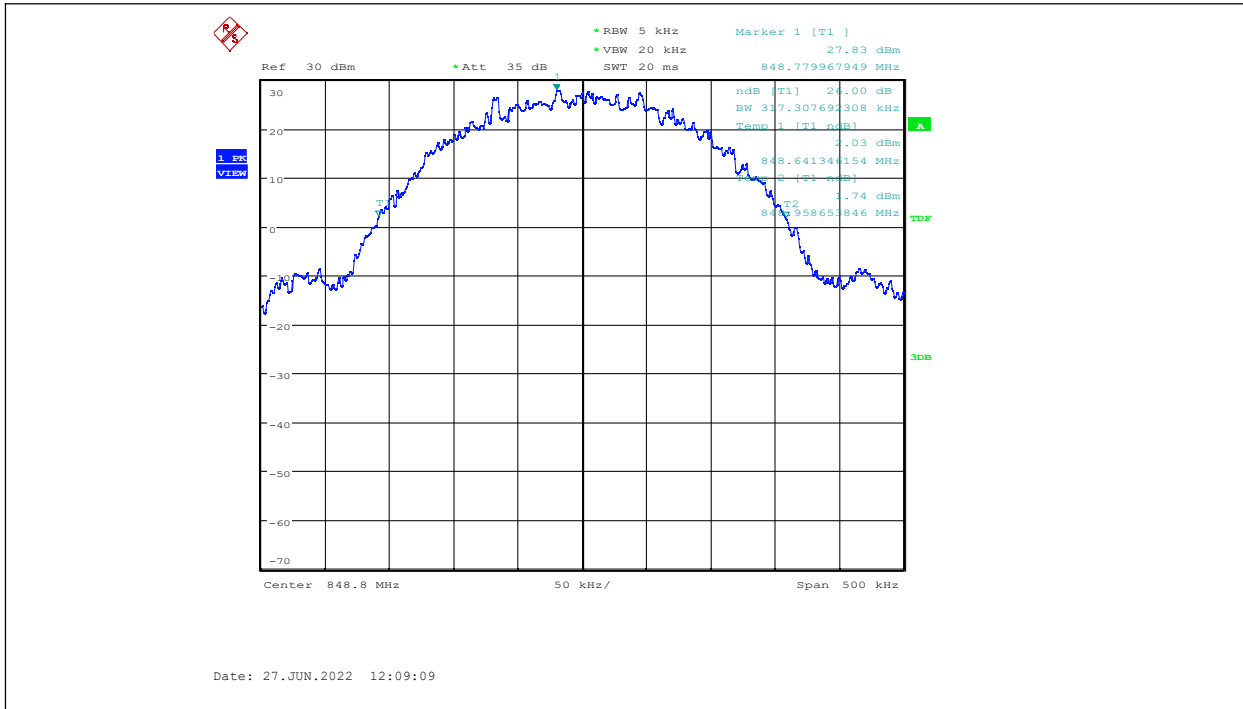
**Channel 128-Emission Bandwidth (-26dBc BW)**



**Channel 190-Emission Bandwidth (-26dBc BW)**



**Channel 251-Emission Bandwidth (-26dBc BW)**



**GSM850 (-26dBc)**

**EGPRS**

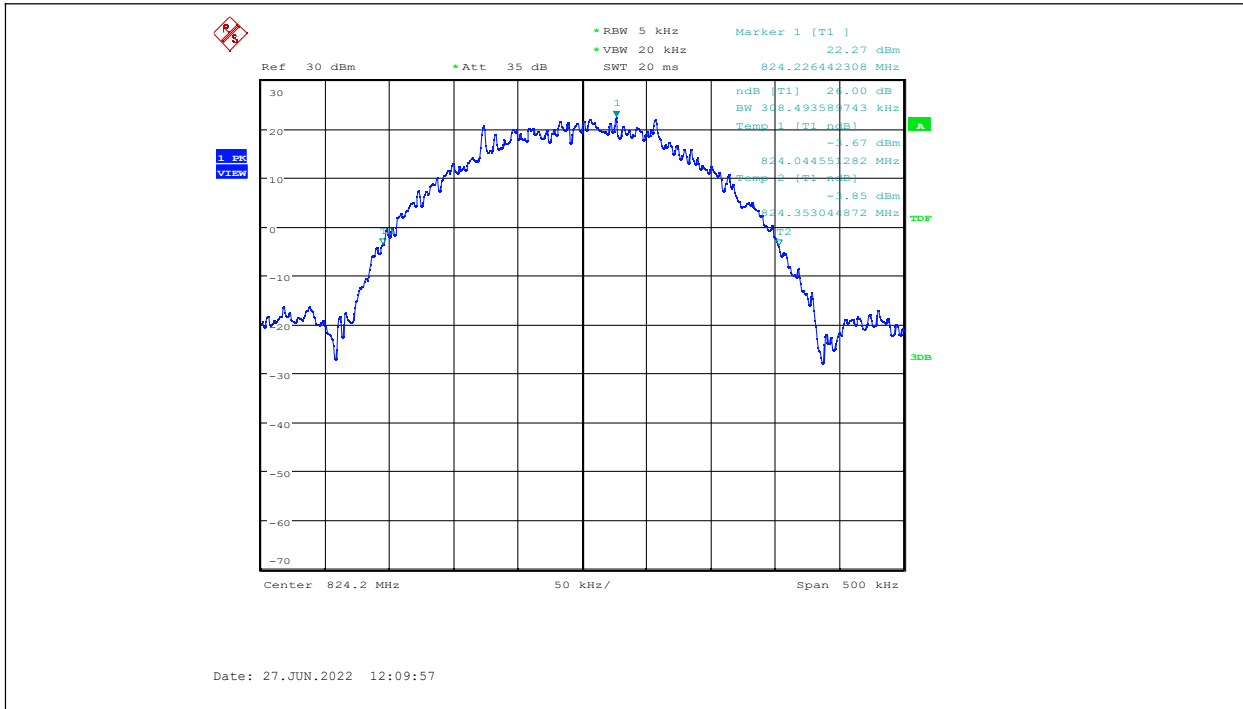
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
824.2	308.494
836.6	309.295
848.8	302.885

**GSM850**

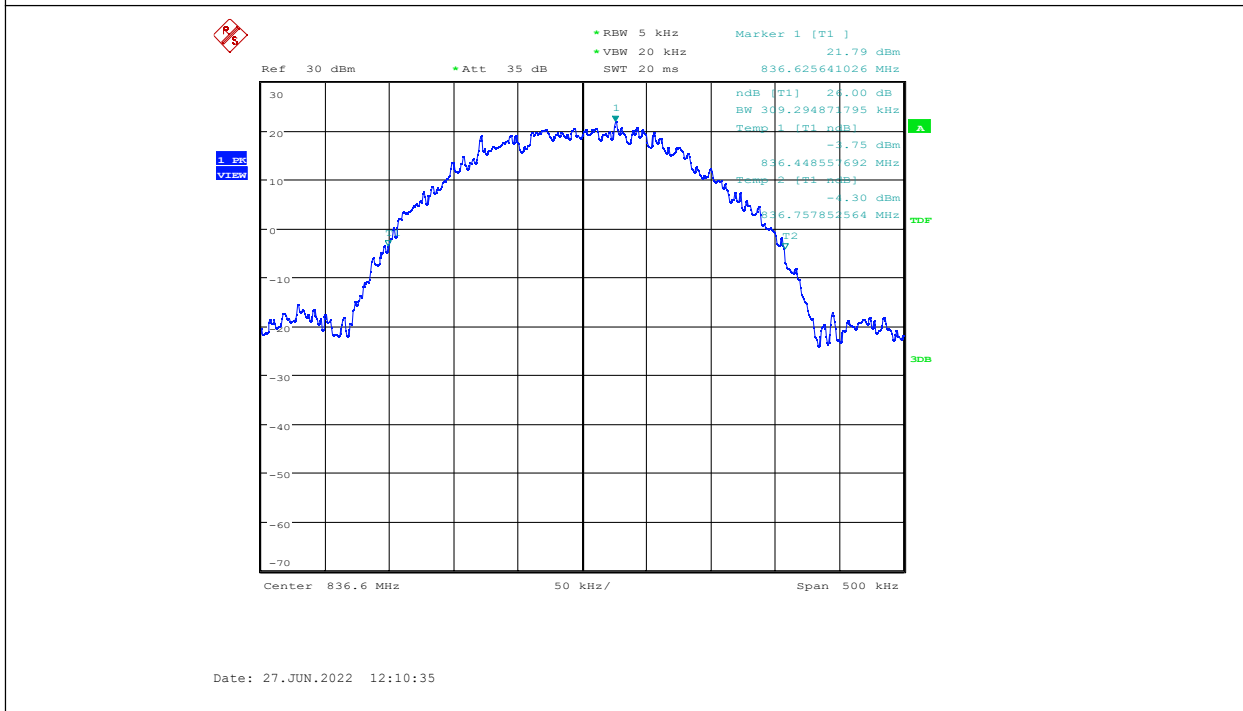
<b>Channel 128-Emission Bandwidth (-26dBc BW)</b>
---

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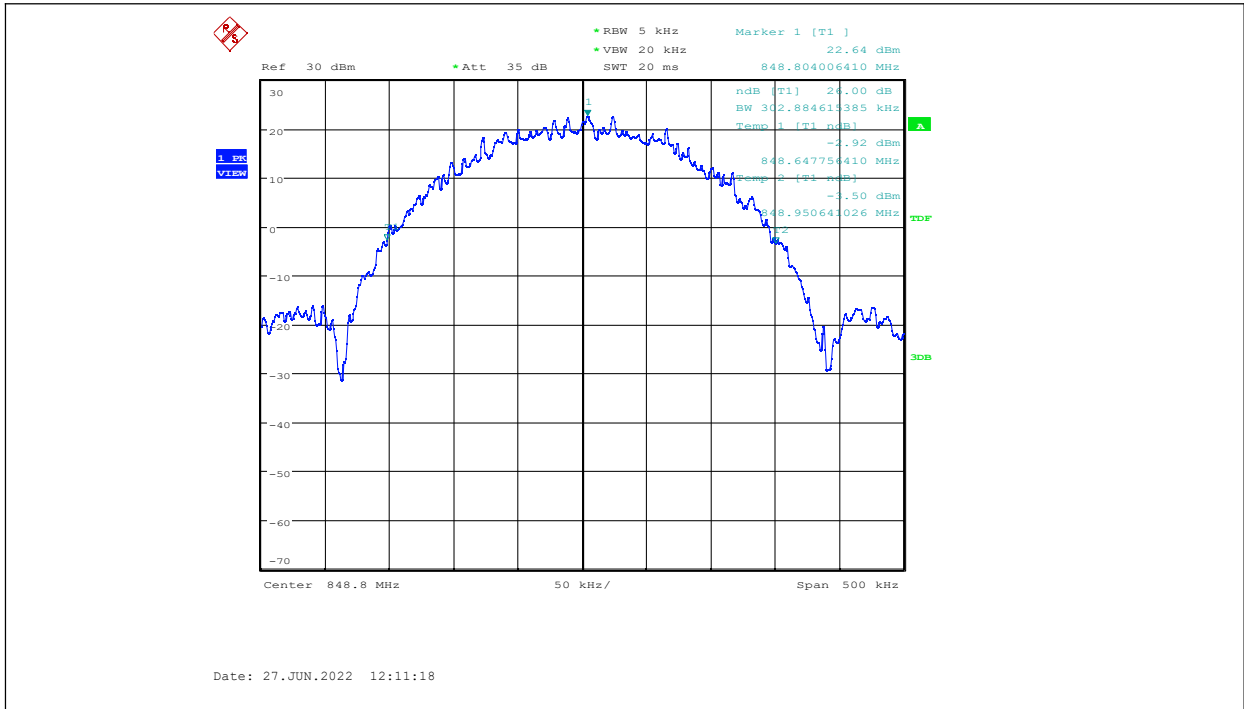
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**Channel 190-Emission Bandwidth (-26dBc BW)**



**Channel 251-Emission Bandwidth (-26dBc BW)**



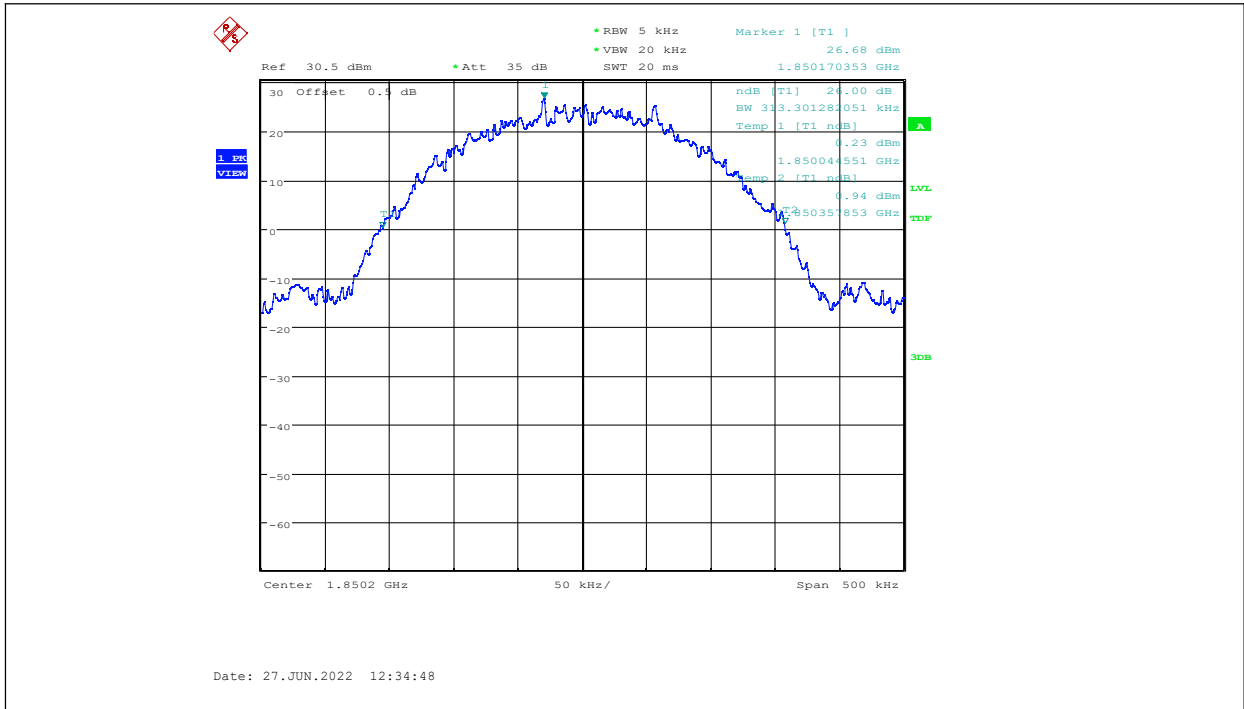
**PCS1900 (-26dBc)**

**GPRS**

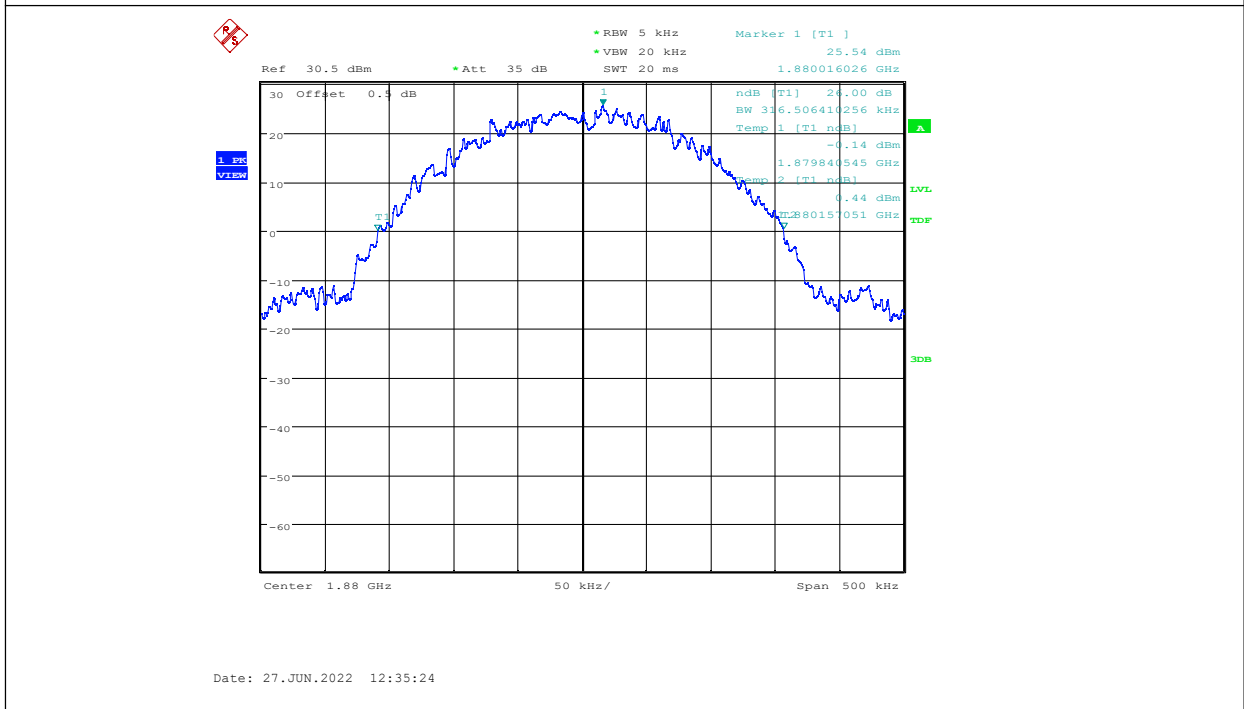
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1850.2	313.301
1880	316.506
1909.8	314.103

**PCS1900**

**Channel 512-Emission Bandwidth (-26dBc BW)**

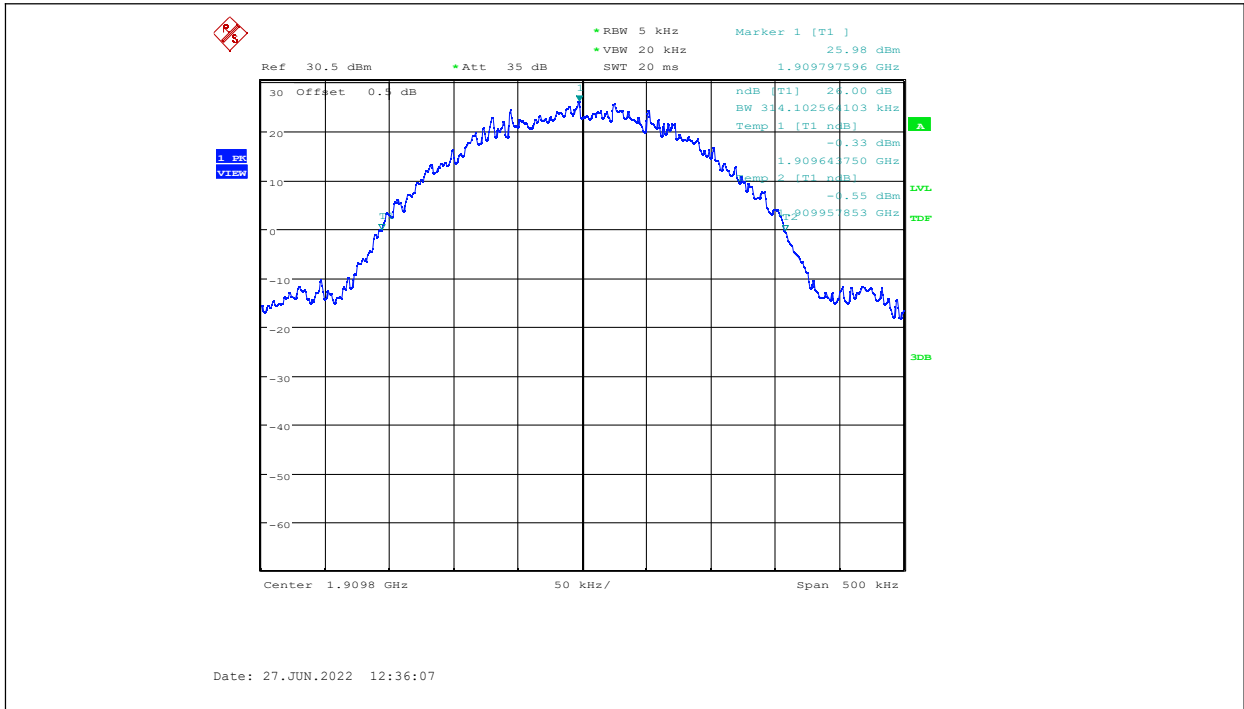


**Channel 661-Emission Bandwidth (-26dBc BW)**



**Channel 810-Emission Bandwidth (-26dBc BW)**





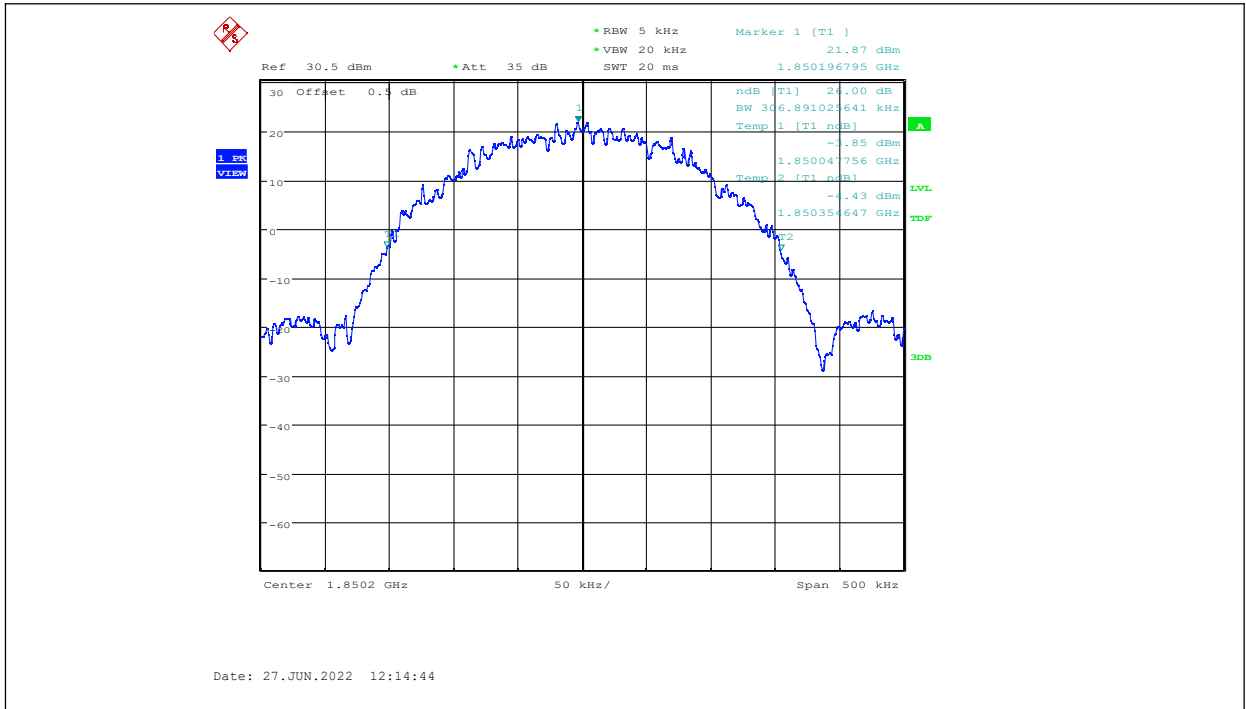
**PCS1900 (-26dBc)**

**EGPRS**

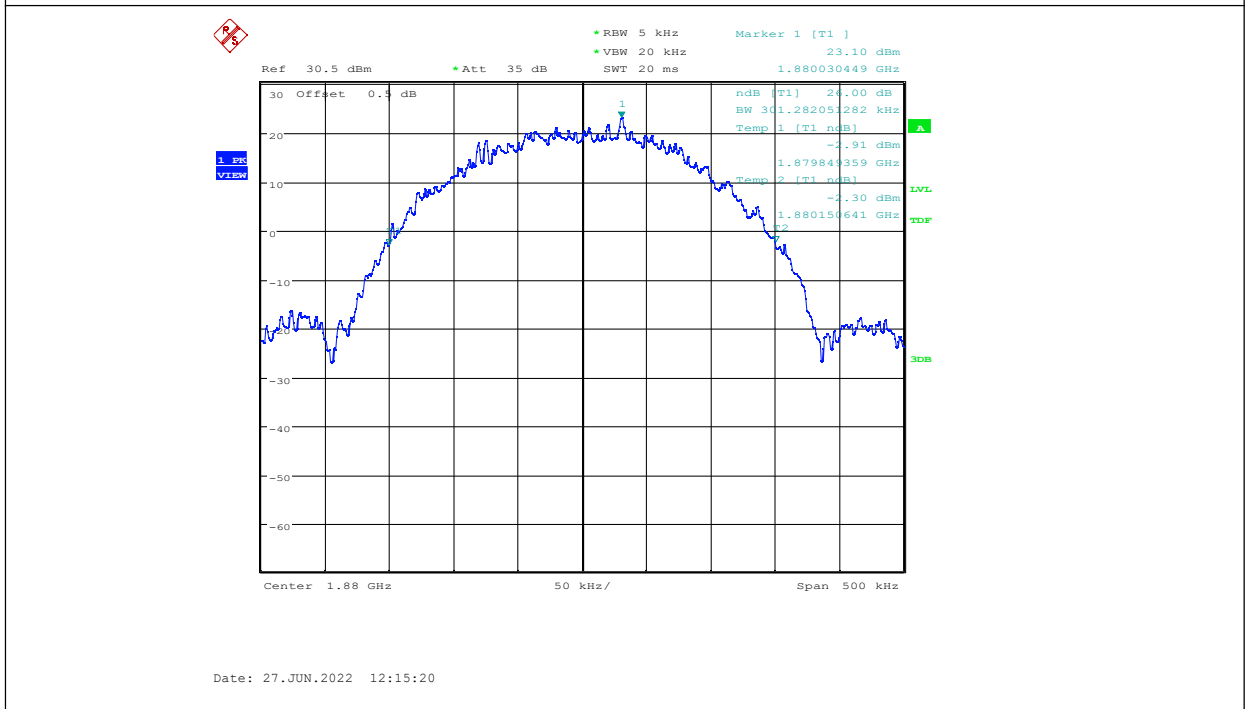
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1850.2	306.891
1880	301.282
1909.8	309.295

**PCS1900**

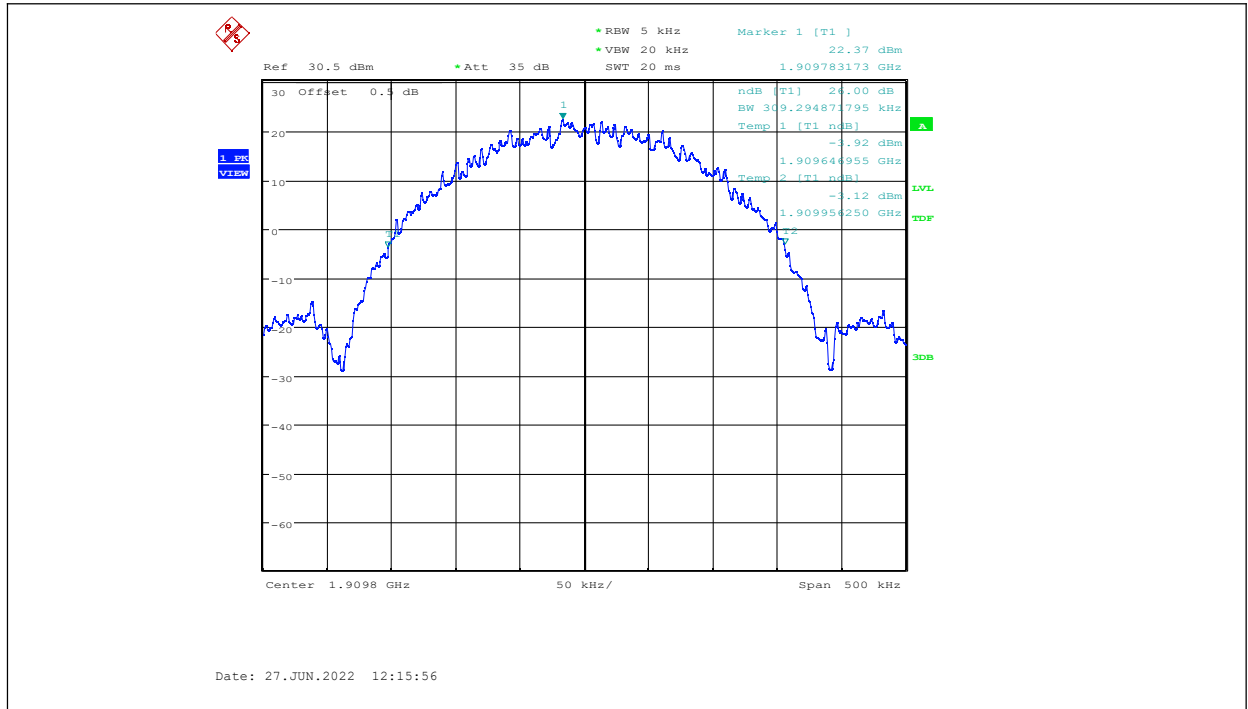
**Channel 512-Emission Bandwidth (-26dBc BW)**



**Channel 661-Emission Bandwidth (-26dBc BW)**



**Channel 810-Emission Bandwidth (-26dBc BW)**



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### 6.5. Conducted spurious emissions

<b>Specifications:</b>	FCC Part 2.1051, 24.238, 2.1053, 22.917
<b>DUT Serial Number:</b>	865456056939489
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit Level Construction:

**According to Part 22.917 (a)**, i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

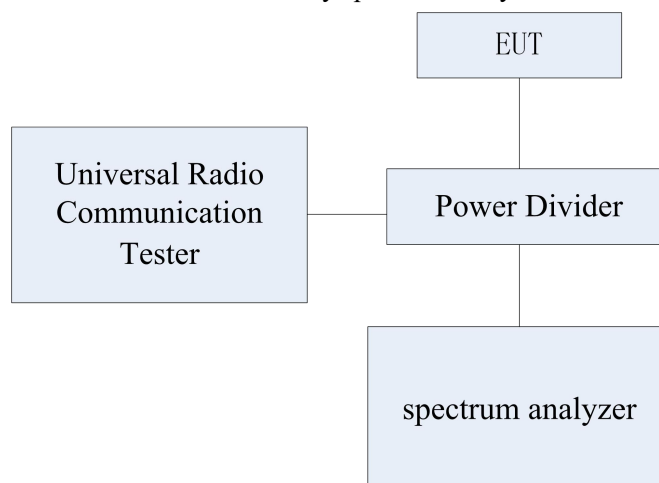
**According to Part 24.238 (a)**, i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB, so the limit level is:  $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$ .

#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.74 dB (k=2)

#### Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



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**Report No.: I22W00051-GSM-RF-Rev3**

**Test Method:**

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

**Note: --**

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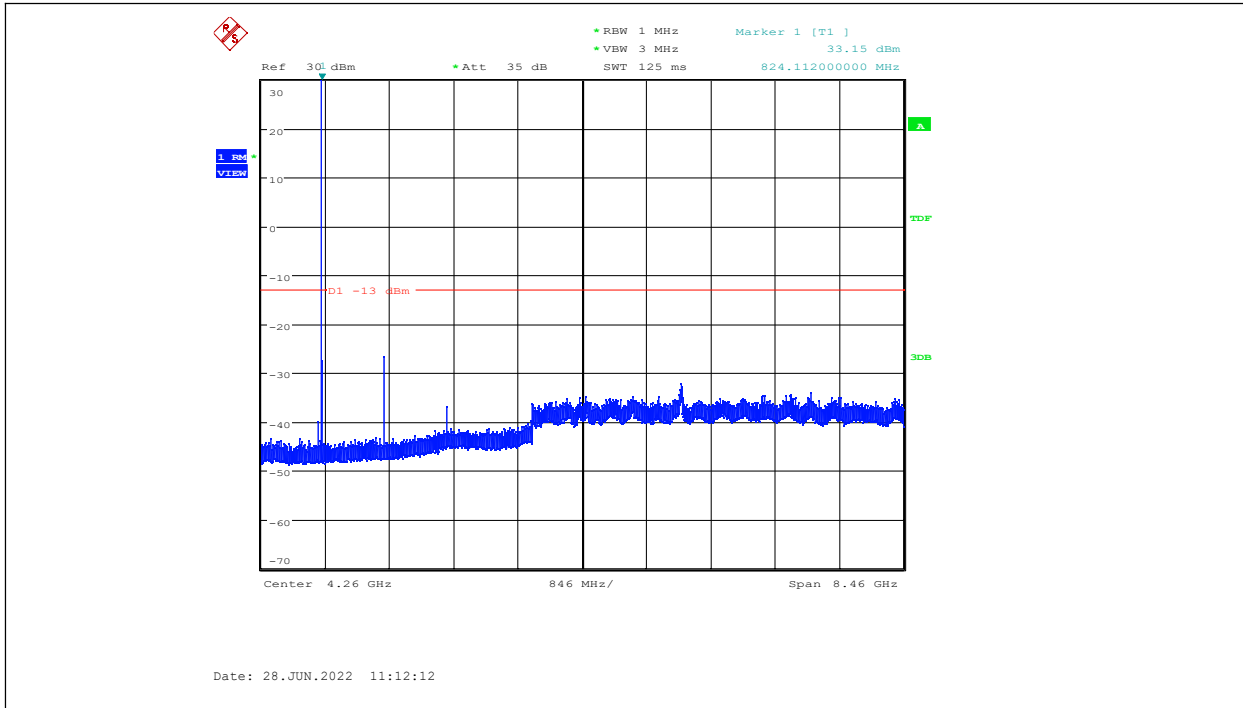
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### 6.5.1 Conducted Spurious Emission Results

**GSM850**

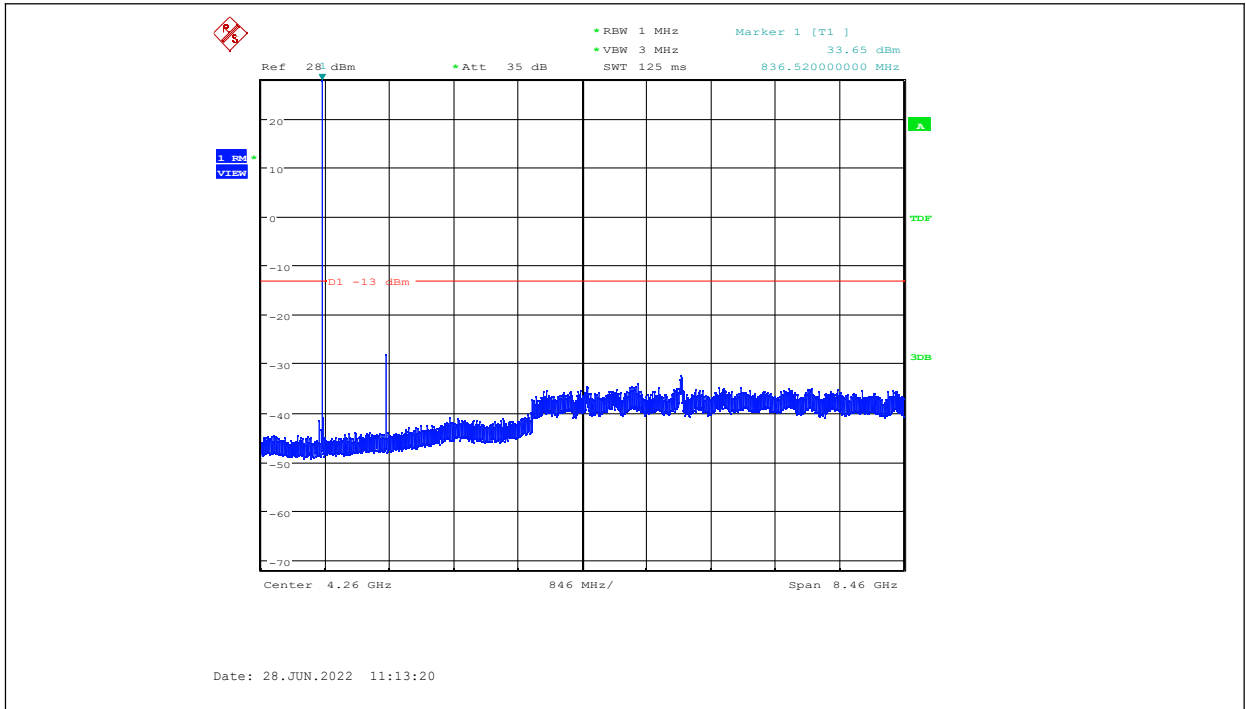
**Channel 128:30MHZ - 8490MHZ**

**NOTE: peak above the limit line is the carrier frequency.**



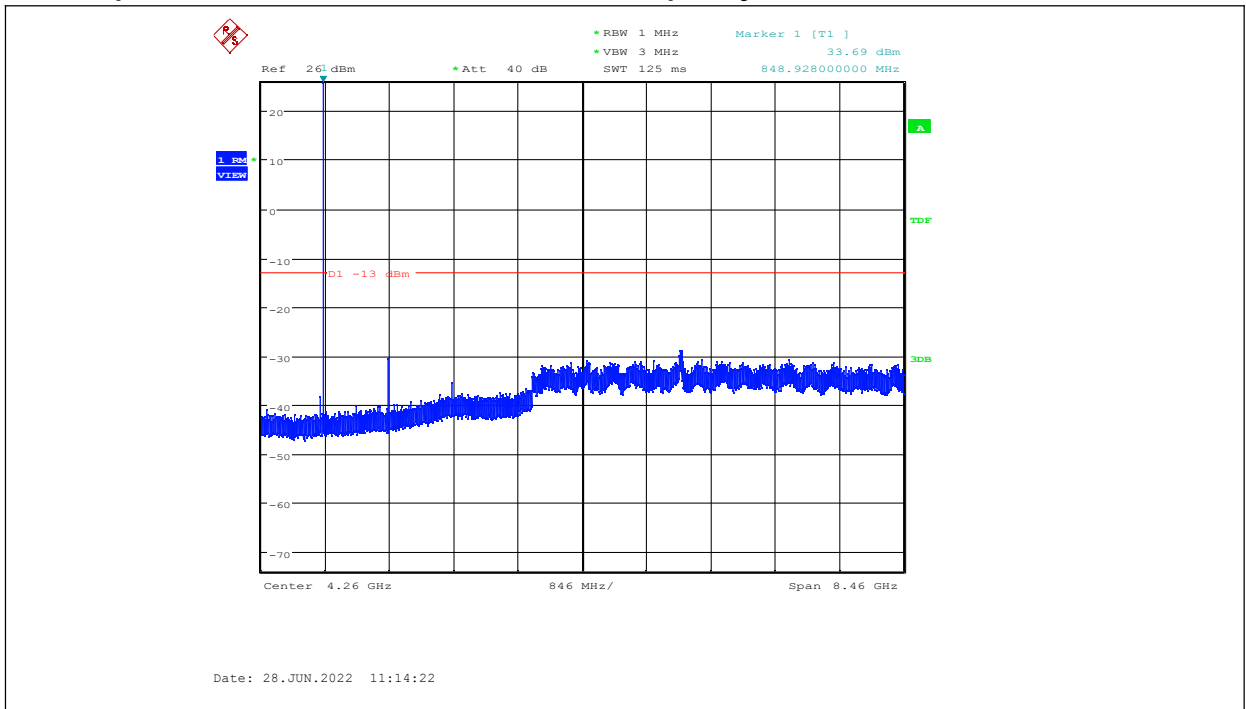
**Channel 190:30MHZ - 8490MHZ**

**NOTE: peak above the limit line is the carrier frequency.**



**Channel 251:30MHZ - 8490MHZ**

**NOTE: peak above the limit line is the carrier frequency.**



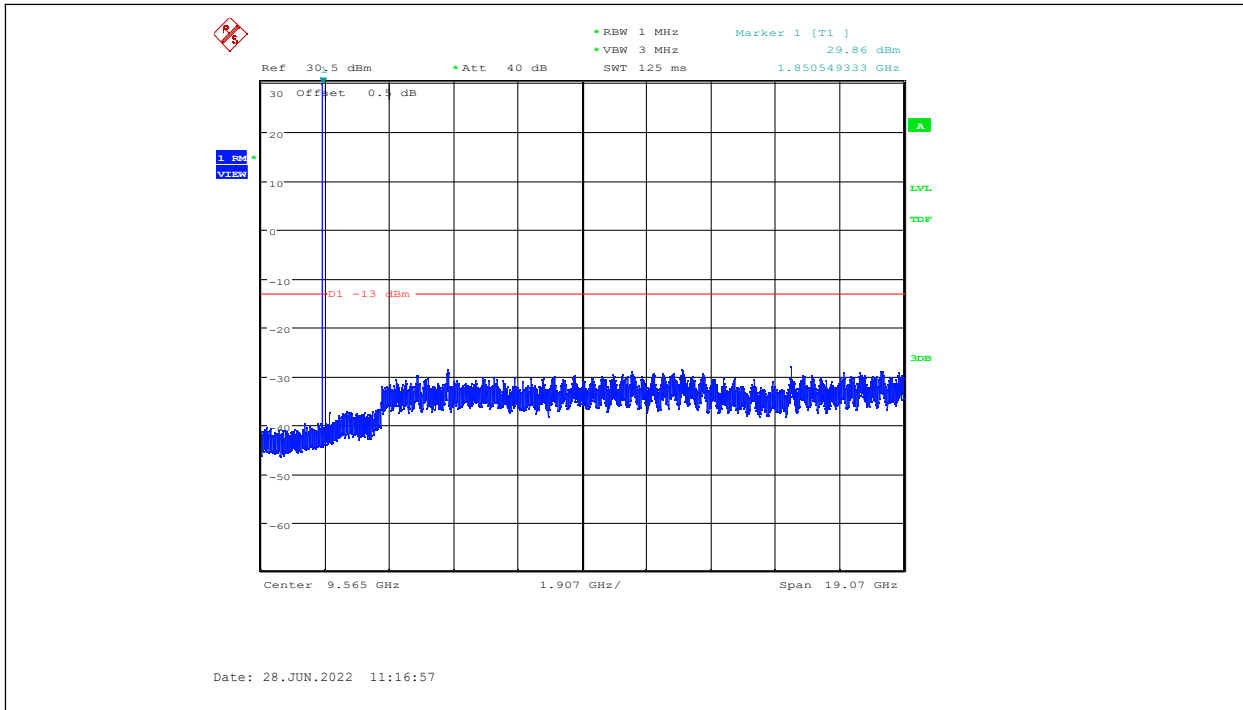
**PCS1900**

**Channel 512:30MHZ - 19100MHZ**

**Chongqing Academy of Information and Communication Technology**

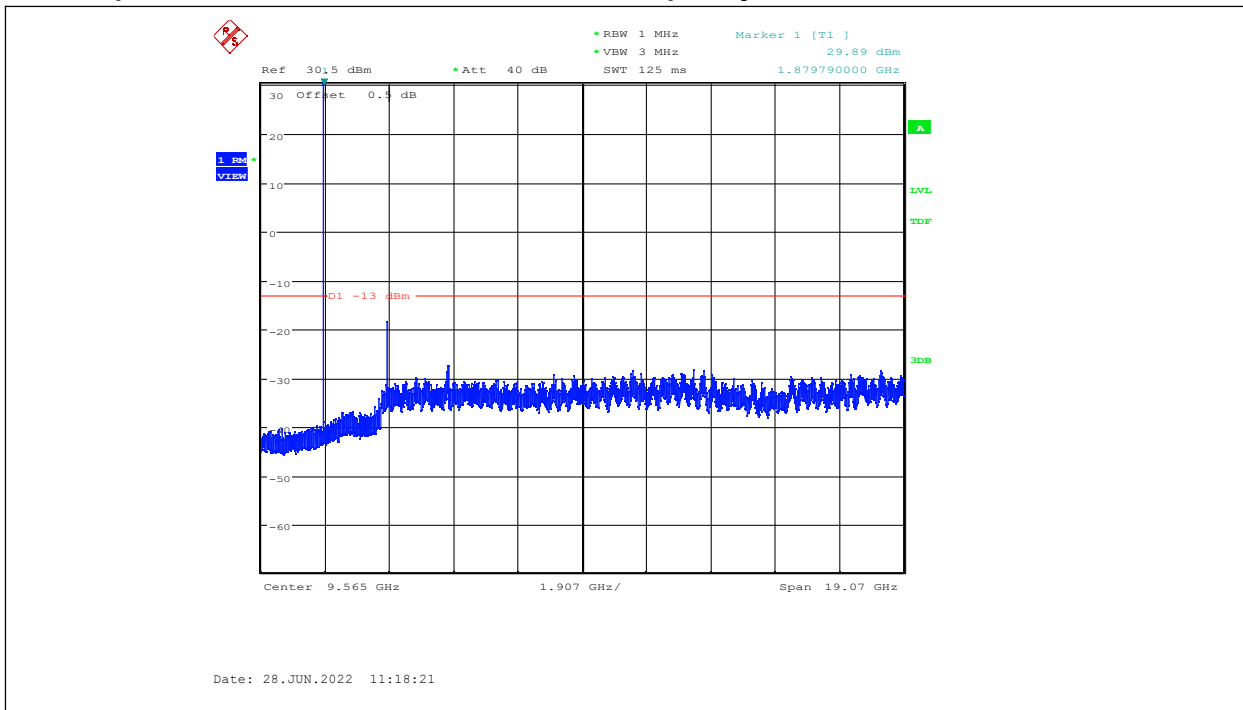
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NOTE: peak above the limit line is the carrier frequency.



### Channel 661:30MHZ - 19100MHZ

NOTE: peak above the limit line is the carrier frequency.



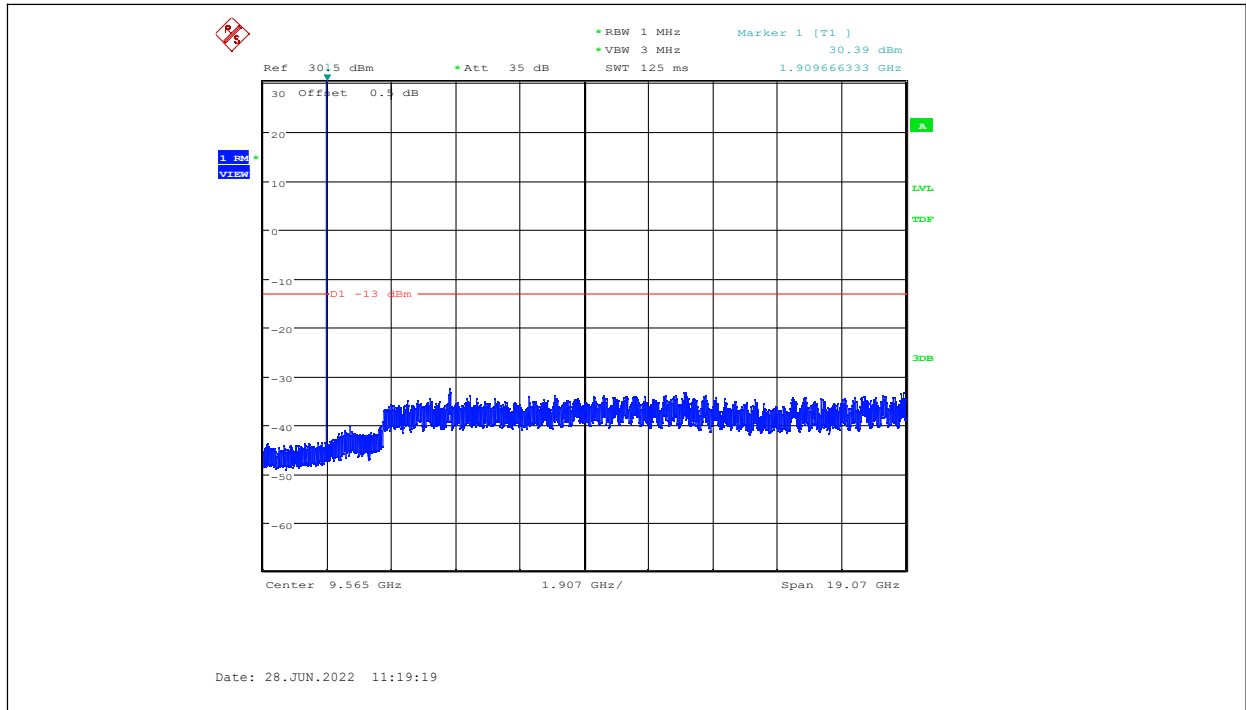
### Channel 810:30MHZ - 19100MHZ

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NOTE: peak above the limit line is the carrier frequency.



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## 6.6. Radiated Spurious Emission

<b>Specifications:</b>	FCC Part 2.1051, 2.1053, 24.238, 22.917
<b>DUT Serial Number:</b>	IMEI:865456056938960
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

### Limit Level Construction:

**According to Part 22.917 (a)**, i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

**According to Part 24.238 (a)**, i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB, so the limit level is:  $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$ .

### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	5.15 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.09dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	2.92dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	2.93dB (k=2)
Expanded Uncertainty (3GHz-20GHz)	2.69dB (k=2)

### Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

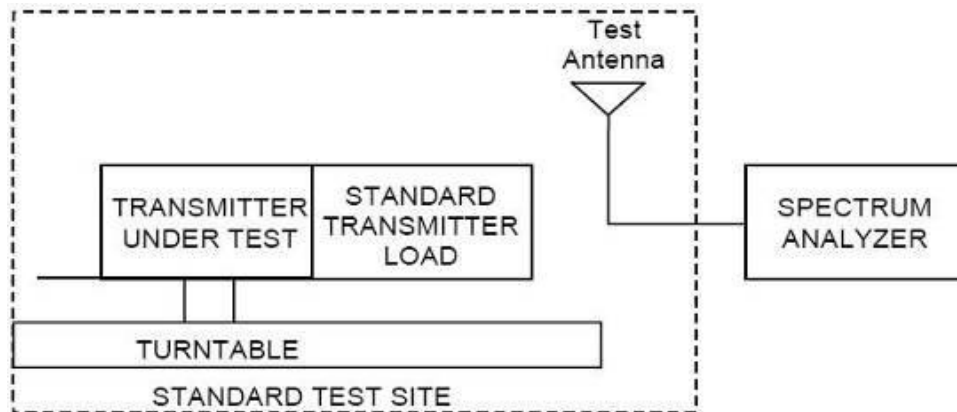
### Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

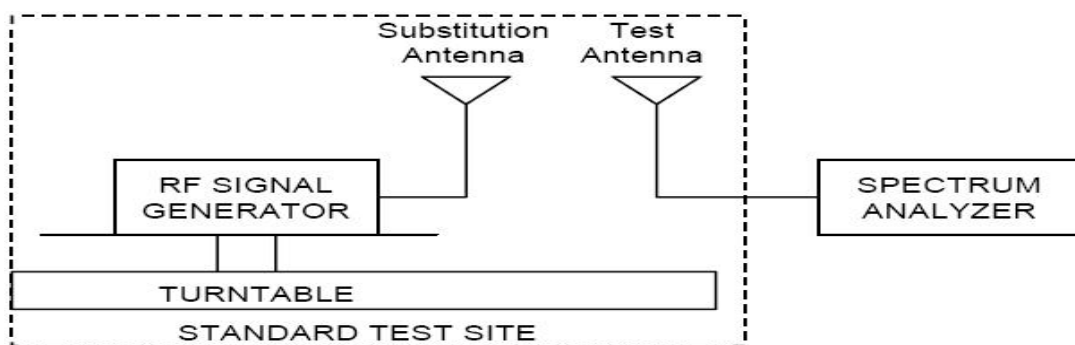
(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .

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(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

$P_d$  is the dipole equivalent power and  $P_g$  is the generator output power into the substitution antenna.

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**Radiated Spurious Emission Results**

Test frequency: 30MHz-20GHz

All modes were tested,only the worst case was reported.

**6.6.1 GSM 850 Radiated Spurious Emission Results**

**Test Data (GPRS GMSK Mode CH128)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1648.4	-57.4	1.0	1.6	-56.8	H
2472.6	-48.5	1.3	0.3	-49.5	V
3296.8	-59.8	1.5	8.9	-52.4	V
4121.0	-58.1	1.7	9.3	-50.5	V
4945.2	-55.3	1.9	9.5	-47.7	V
5769.4	-56.7	2.3	11.1	-47.9	V

**Test Data (EGPRS 8PSK Mode CH128)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1648.4	-56.0	1.0	1.6	-55.4	H
2472.6	-48.1	1.3	0.3	-49.1	V
3296.8	-57.8	1.5	8.9	-50.4	V
4121.0	-56.8	1.7	9.3	-49.2	V
4945.2	-53.8	1.9	9.5	-46.2	V
5769.4	-54.9	2.3	11.1	-46.1	V

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## 6.6.2 PCS 1900 Radiated Spurious Emission Results

### Test Data (GPRS GMSK Mode CH810)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3819.6	-61.7	1.6	9.0	-54.3	V
5729.4	-60.0	2.1	10.5	-51.6	V
7639.2	-57.7	2.5	11.8	-48.4	V
9549.0	-55.5	3.1	12.2	-46.4	V
11458.8	-54.0	3.6	13.6	-44.0	V
13368.6	-52.2	3.7	14.1	-41.8	V

### Test Data (EGPRS 8PSK Mode CH661)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-62.9	1.5	9.0	-55.4	V
5640.0	-59.3	2.1	10.5	-50.9	V
7520.0	-58.8	2.5	11.8	-49.5	V
9400.0	-55.8	3.1	12.2	-46.7	V
11280.0	-53.4	3.6	13.6	-43.4	V
13160.0	-52.6	3.7	14.1	-42.2	V

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### 6.7. Band Edge

<b>Specifications:</b>	FCC Part 2.1051, 24.238, 2.1053, 22.917
<b>DUT Serial Number:</b>	865456056939489
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

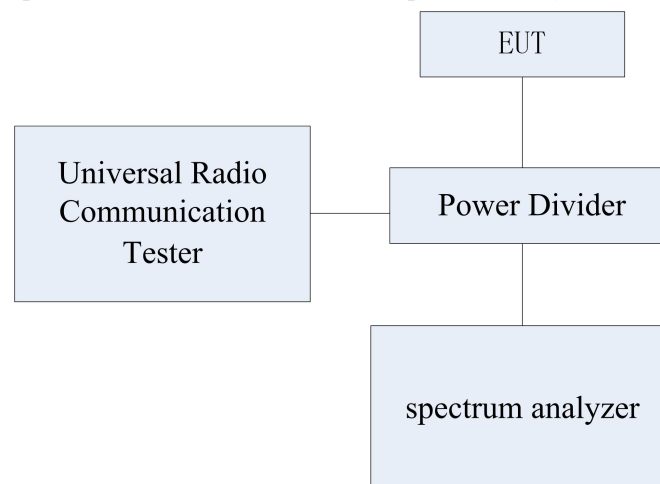
According to Part 24.238 (a), i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB, so the limit level is:  $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$ .

#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.28 dB (k=2)

#### Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



#### Test Method:

1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a

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power divider. The lost of the cables the test system is calibrated to correct the readings.

2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.

3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

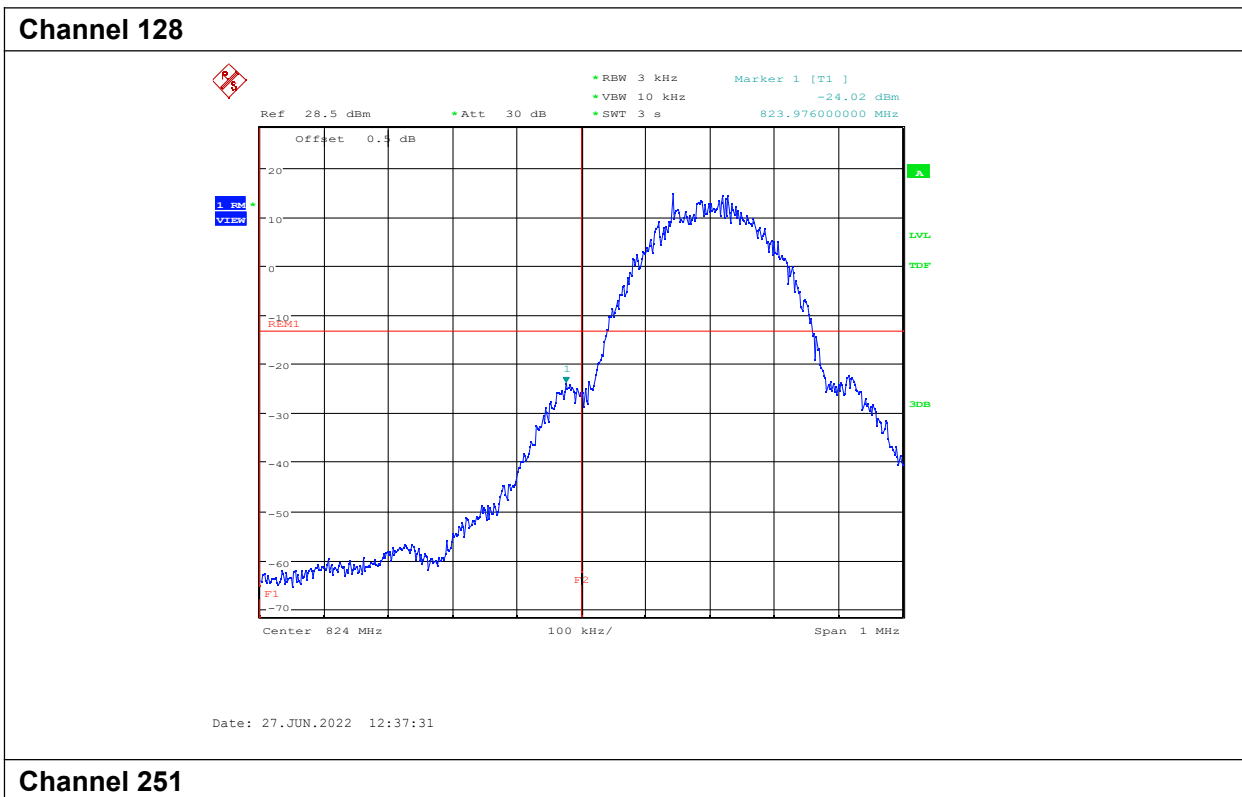
**Note:** In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

### 6.7.1 Band Edge Results

GSM850

GPRS

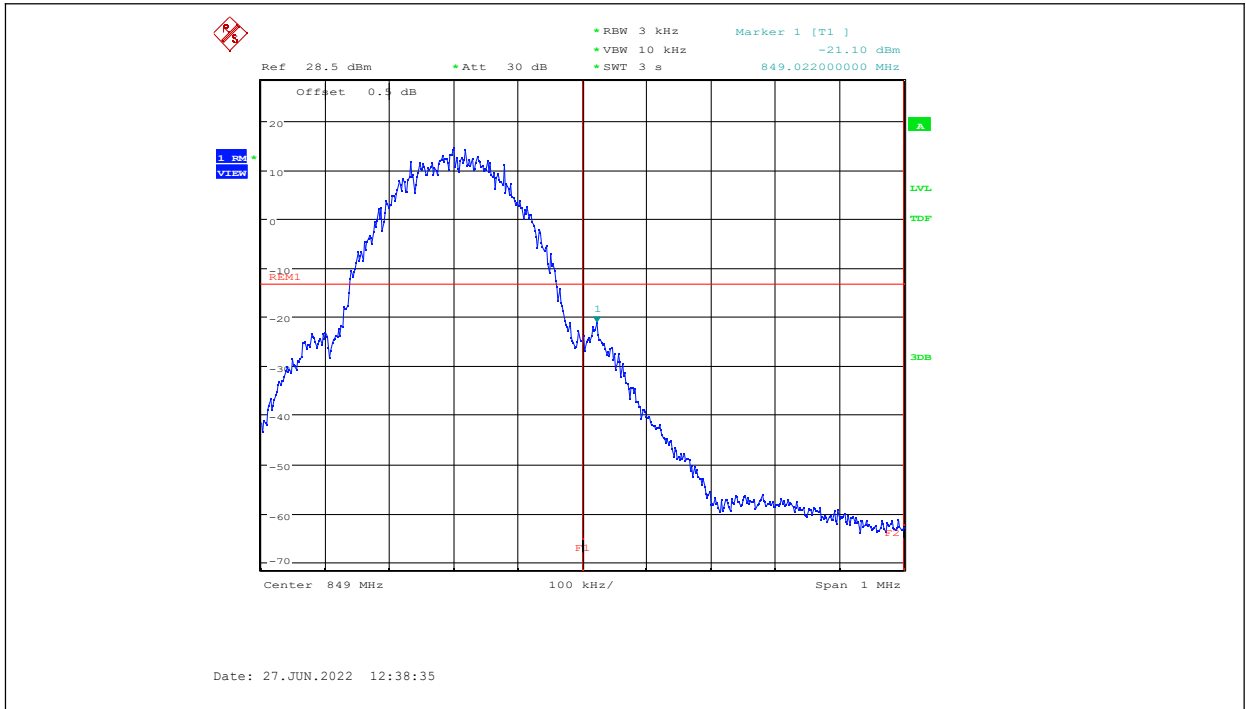
Channel 128



Channel 251

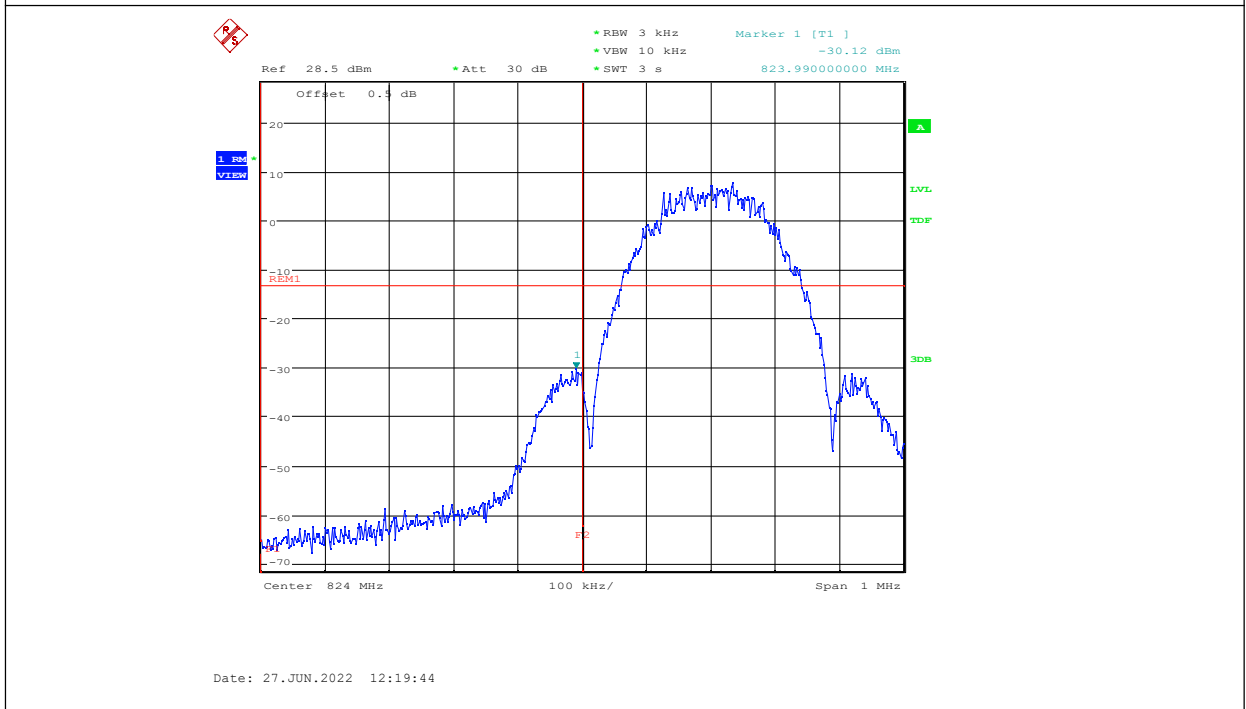
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**EGPRS**

**Channel 128**

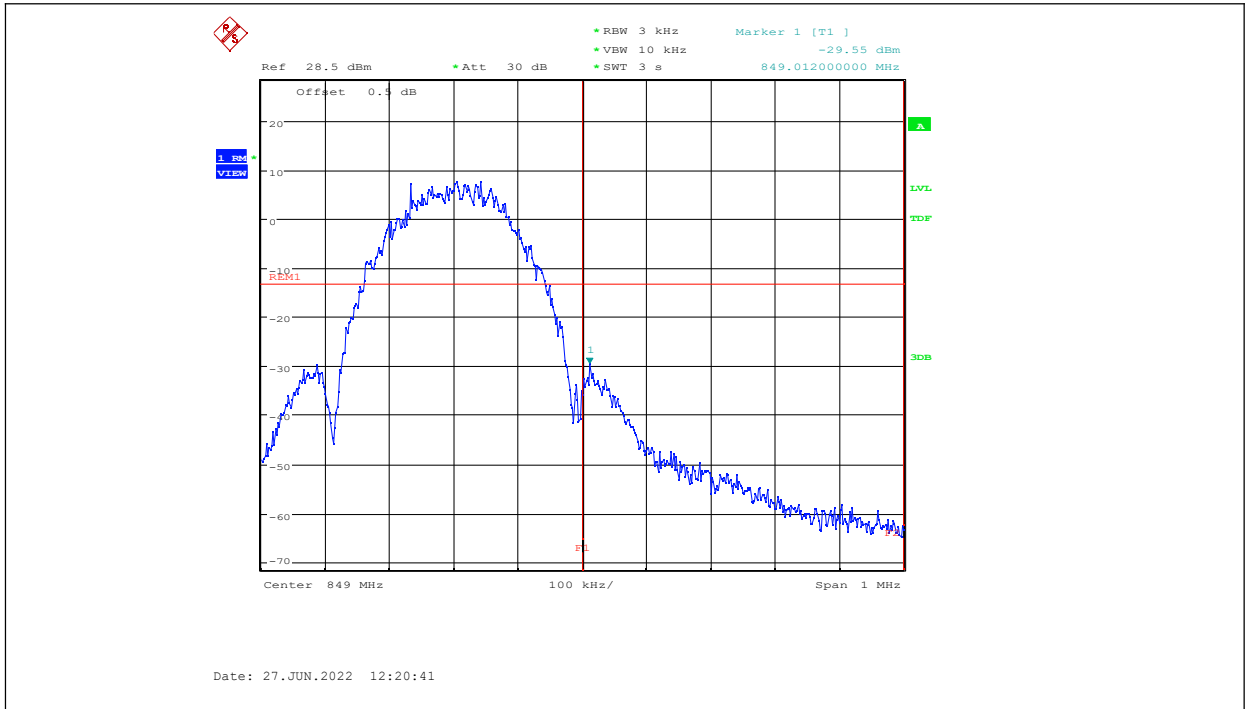


**Channel 251**

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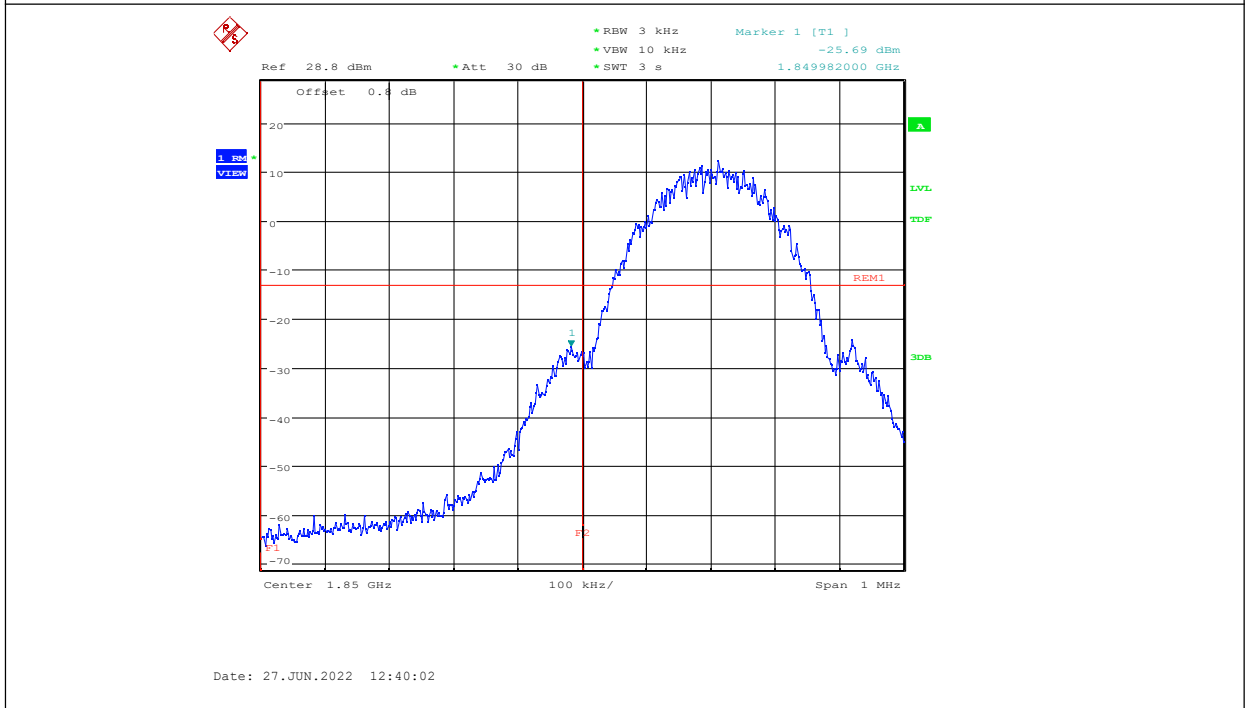




PCS1900

GPRS

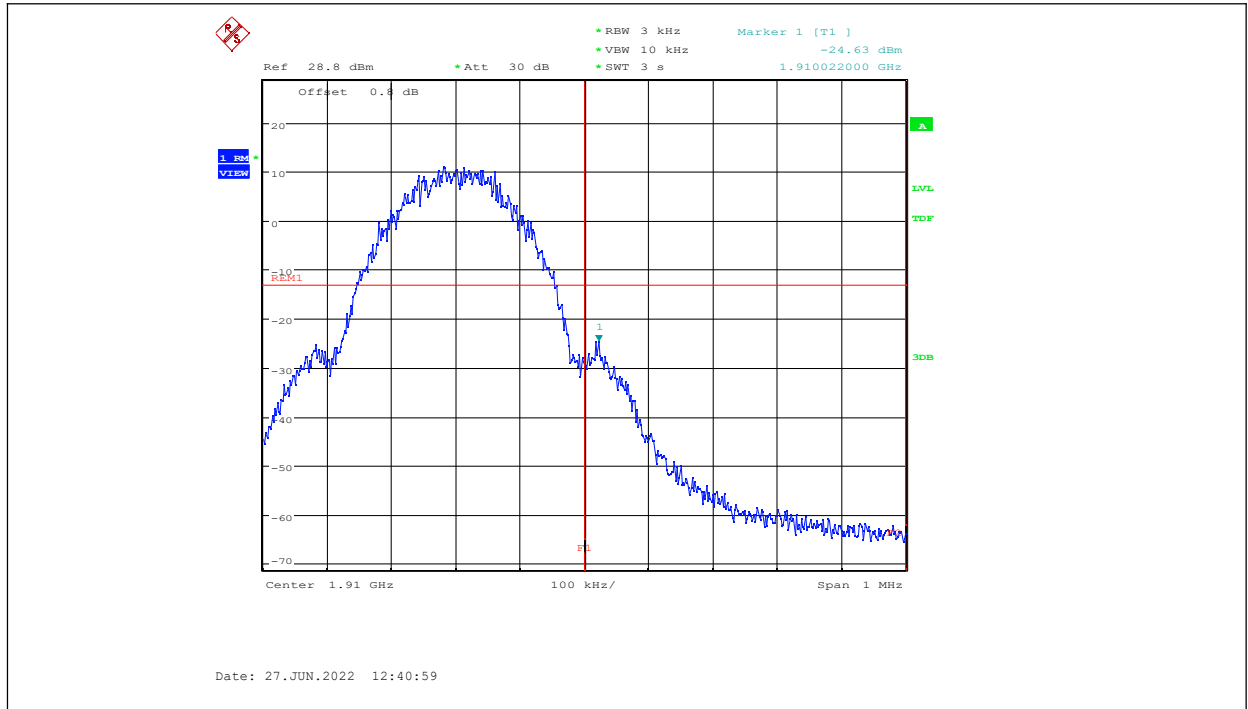
Channel 512



Channel 810

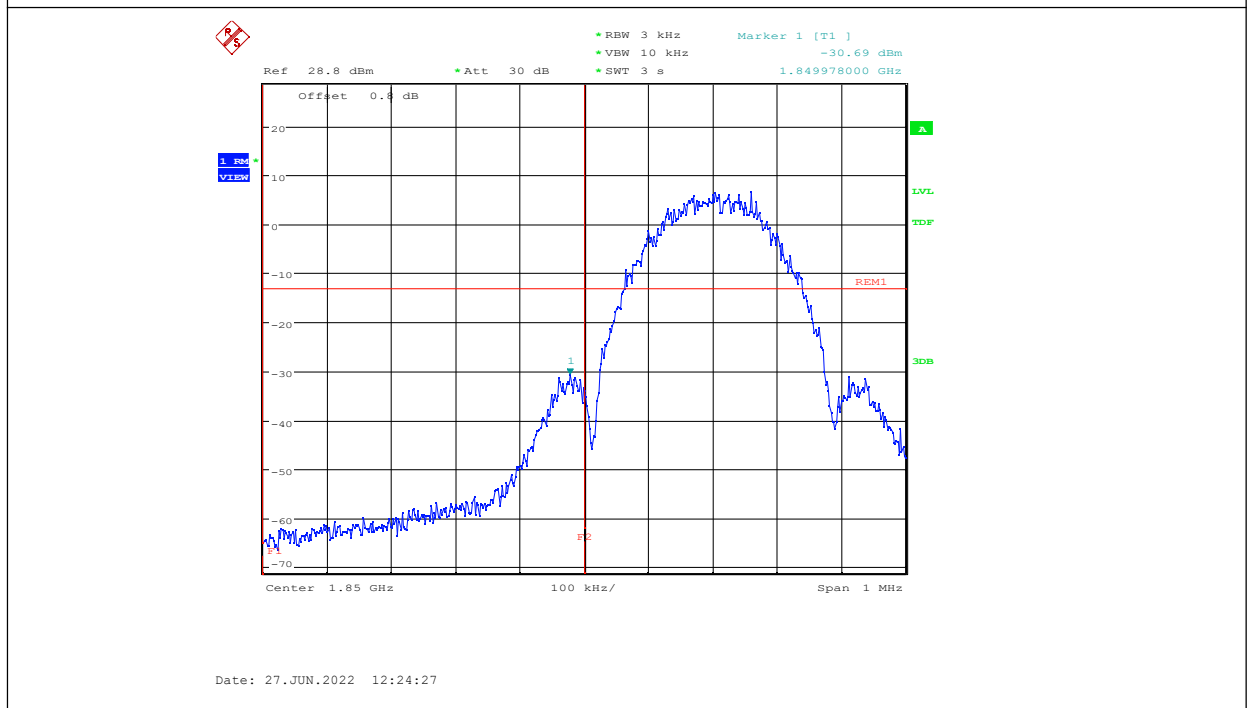
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### EGPRS

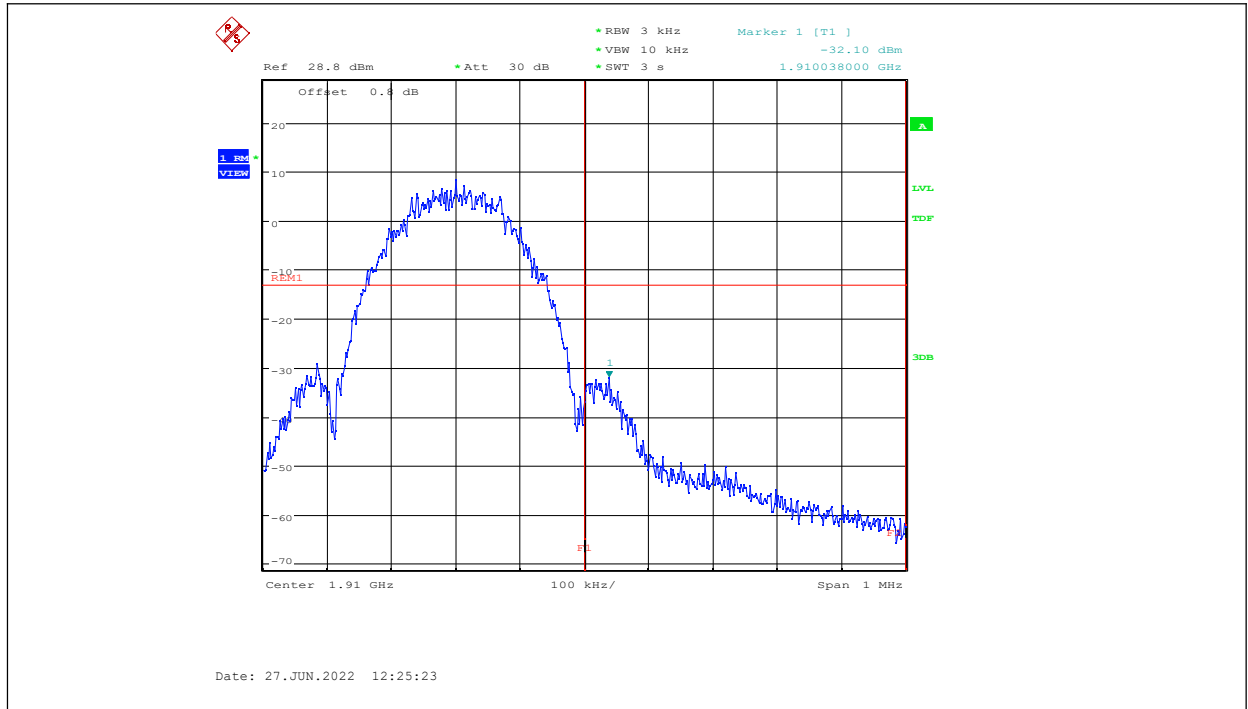
#### Channel 512



#### Channel 810

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### 6.8. Frequency Stability

<b>Specifications:</b>	FCC Part 2.1055, 22.355, 24.235
<b>DUT Serial Number:</b>	865456056939489
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

Limit	
Frequency deviation [ppm]	±2.5

#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54 Hz (k=2)

#### Test Method

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as FL and FH respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any

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self-heating to stabilize, before continuing.

6. Subject the EUT to overnight soak at +50°C.

7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.

9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

### 6.8.1 Frequency Stability over Temperature Variation Results

#### GSM850

##### Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	836.6	3.18	0.0038
50			4.65	0.0055
40			-0.55	0.0006
30			4.07	0.0048
10			-1.74	0.0020
0			1.65	0.0019
-10			2.65	0.0031
-20			0.90	0.0010
-30			3.78	0.0045

##### Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	836.6	3.87	0.0046
4.3			-0.10	0.0001

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**PCS1900**

**Frequency Error vs Temperature**

Temperature(°C)	Voltage(V)	Center frequency (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1880	-1.34	0.0007
50			8.04	0.0043
40			-0.29	0.0002
30			-5.42	0.0029
10			0.94	0.0005
0			8.85	0.0047
-10			0.84	0.0004
-20			-1.61	0.0009
-30			7.30	0.0039

**Frequency Error vs Voltage**

Voltage(V)	Temperature(°C)	Center frequency (MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	1880	2.68	0.0014
4.3			9.11	0.0048

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### 6.9. Peak to Average Ratio

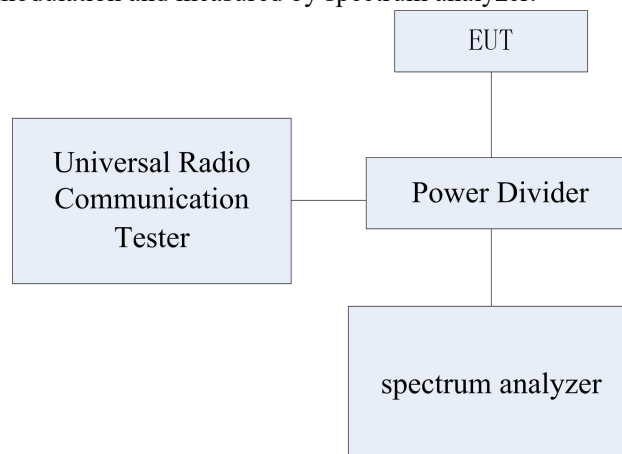
<b>Specifications:</b>	FCC Part 24.232
<b>DUT Serial Number:</b>	865456056939489
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

#### Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.22 dB (k=2)

#### Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

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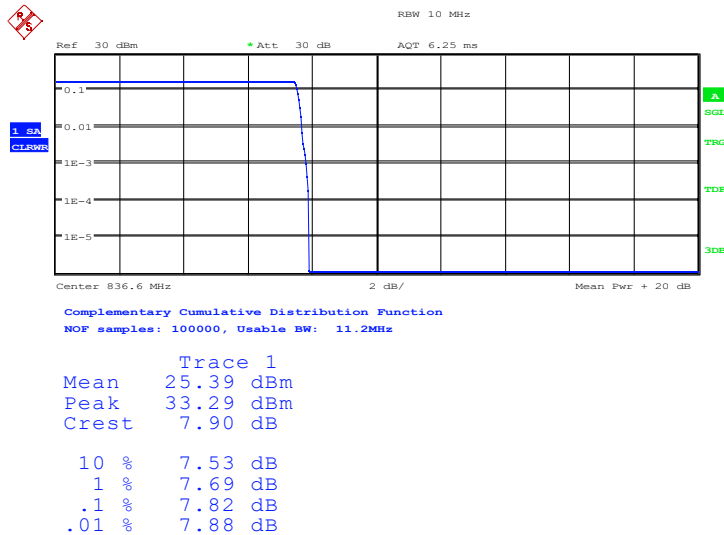
### 6.9.1 Peak to Average Ratio Results

#### GSM850

#### Measurement result

GSM850	Frequency (MHz)	PAPR (dB)
GPRS	836.6	7.82
EGPRS	836.6	10.54

#### Channel GPRS-836.6MHz



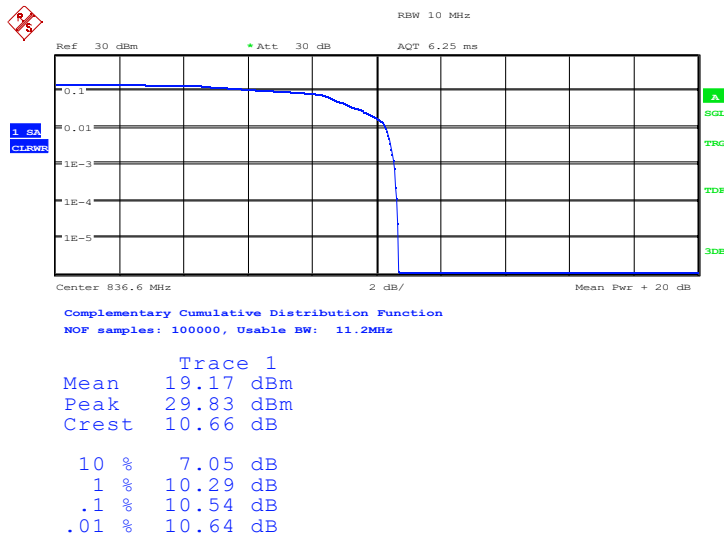
Date: 27.JUN.2022 12:51:13

#### Channel EGPRS-836.6MHz

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Date: 27.JUN.2022 12:45:33

## PCS1900

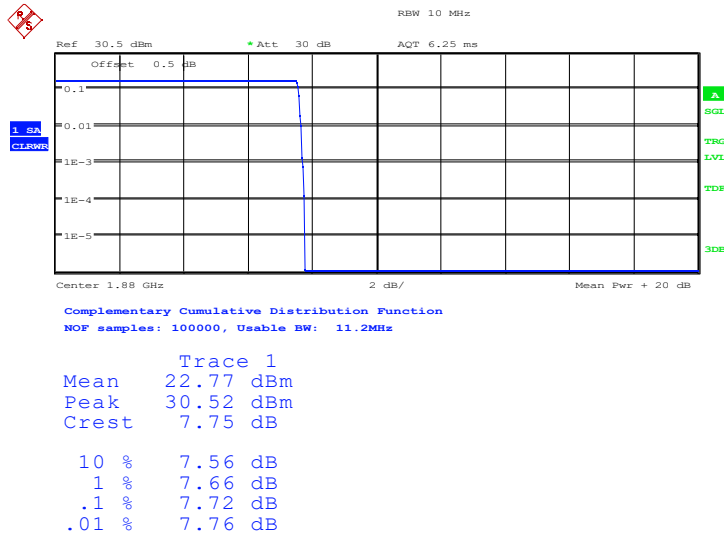
### Measurement result

PCS1900	Frequency (MHz)	PAPR (dB)
GPRS	1880	7.72
EGPRS	1880	10.64

### Channel GPRS-1880MHz

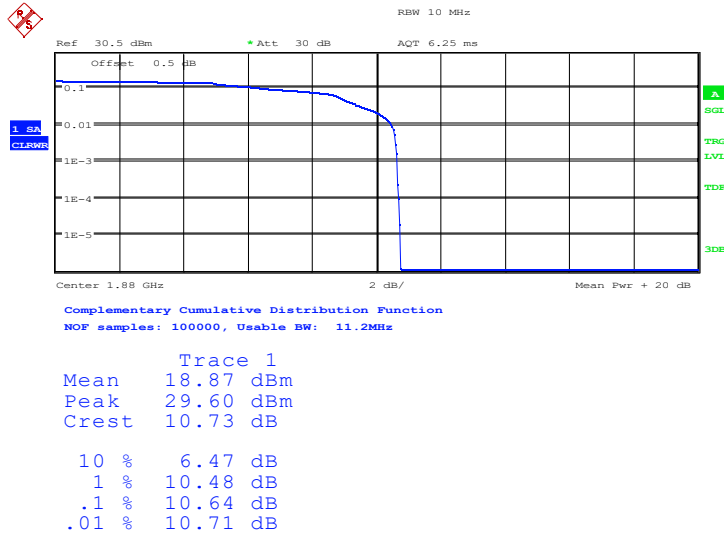
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Date: 27.JUN.2022 12:47:21

### Channel EGPRS-1880MHz



Date: 27.JUN.2022 12:49:09

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## **Annex A EUT Photos**

See the document" I22W00051-External Photos".

See the document" I22W00051-Internal Photos".

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## **ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

**\*\*\*END OF REPORT\*\*\***

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